



January - December 1995
AS-111

Community Air Toxics Monitoring Network Report January - December 1995

Office of Air Quality

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION



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Published and distributed
by the
Texas Natural Resource Conservation Commission
Post Office Box 13087
Austin, Texas 78711-3087

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The Community Air Toxics Monitoring Network is designed to collect information on volatile organic compounds (VOCs) found in ambient air. Monitored compounds were selected based upon their expected frequency of occurrence, potential to cause health effects, potential to form ozone, and known applicability to the canister collection technique. This report focuses on evaluation of the measured concentrations of the compounds from a human health effects standpoint.

The data in this report were collected by the Texas Natural Resource Conservation Commission (TNRCC) during 1995 at 23 monitoring sites in 15 counties (Map 1). Air samples were collected for 24 hours every sixth day. Samples were analyzed for 69 VOCs at the TNRCC's Austin laboratory.

Concentrations of all the compounds collected from January to December 1995 were below their TNRCC health-based screening levels, except benzene and 1,3-butadiene. No adverse health effects are expected to occur as a result of exposure to the measured concentrations of these two compounds.

The measured concentration of 1,3-butadiene exceeded its 24-hour health-based screening level of 20 parts per billion by

volume (ppbv) once in Port Arthur. The 24-hour measured concentrations of 1,3-butadiene were less than levels that would result in acute health effects. Annual average concentrations of 1,3-butadiene at all sites were below the health-based screening level. No adverse health effects are expected to occur as a result of exposure to the measured concentrations of 1,3-butadiene.

Executive Summary and Background

Benzene was the only compound measured above both its annual and 24-hour health-based screening levels. Measured concentrations of benzene exceeded the 24-hour



Map 1. Location of TNRCC Community Air Toxics Monitoring Network Sites

screening level of 4 ppbv at seven sites: El Paso, two exceedances; Midlothian, two; Houston (Haden Road), four; Port Arthur, six; Corpus Christi, two; and Groves and Brownsville, one exceedance each. The maximum 24-hour concentrations of benzene were below levels that would result in acute health effects. However, they contribute to long-term exposure to members of the community. Long-term exposure is evaluated by examination of annual average concentrations.

In 1995, the average benzene concentrations measured exceeded the annual benzene health-based screening level of 1 ppbv at eight of the 23 monitoring sites: in Houston, Haden Road, 2.70 ppbv, Clinton Drive, 1.49, and Old Galveston Road, 1.03; in El Paso, 1.58; in Groves, 1.08; in Port Arthur, 1.68; in Corpus Christi, 1.06; and in Channelview, 1.05. Long-term exposure to concentrations of benzene significantly higher than the annual screening level can increase the risk of leukemia. The monitored concentrations do not present a meaningful increase in long-term benzene exposure above the annual screening level; however, the TNRCC considers it important that benzene levels do not significantly increase.

In general, concentrations of the compounds monitored were below levels of concern from a health effects standpoint. Levels

of benzene, while above health-based screening levels at several of the sites monitored, are typical of levels present in ambient air in most urban areas throughout the country and do not significantly increase the risk of adverse health effects associated with benzene exposure. Sites where higher concentrations have been measured are targeted for additional agency efforts to better define and reduce potential public exposures.

Background

The Community Air Toxics Monitoring Network was established in 1992 by a mandate of the state legislature. The legislative directive came in response to stricter pollution limits required by the 1990 Federal Clean Air Act Amendments and growing public concern over air quality. The network is designed to collect information on VOCs in ambient air in or near populated areas.

This is the third report discussing the data collected since 1992. The first 12 months of data collected by the network is discussed in *Community Air Toxics Monitoring Program Report, October 1992 – September 1993*, AS-27, which was published by the TNRCC in May 1994. The second 15 months of data is included in *Community Air Toxics Monitoring Network Report, October 1993 – December 1994*, AS-97, which was published by the TNRCC in December 1995. This

report presents monitoring data collected from January to December 1995.

Summaries of data for all compounds monitored are in the Data Summary Tables in Appendix A. Monitor start dates (Table 1) are in Appendix B.

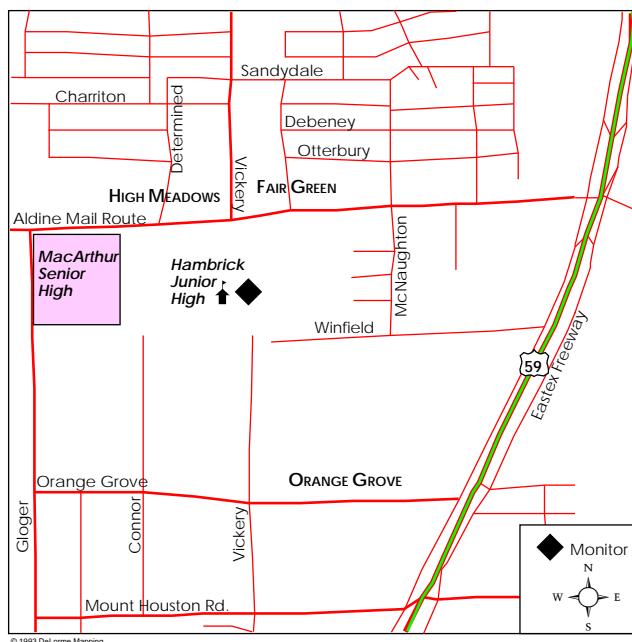
Monitoring Sites

The data discussed in this report were collected by the TNRCC from January through December 1995 at 23 monitoring sites in 15 counties. The sites are located in Austin, Brownsville, Clute, Corpus Christi, El Paso, Midlothian,

Odessa, San Antonio, Texas City, and Winona; there are five sites in Harris County, five in Jefferson and Orange counties, and three in Dallas and Tarrant counties. Monitoring sites were selected based upon such factors as the magnitude of chemical emissions within an area, degree of public interest, wind direction, population density, and traffic patterns in the vicinity. The TNRCC then had to identify sites available for location of the monitoring equipment. Site Maps 2 to 24 and site information are in the next chapter. ♦

Aldine Site

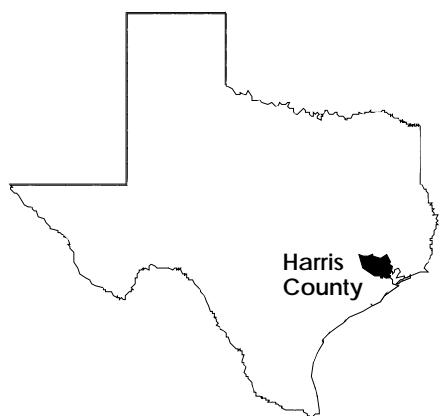
Harris County



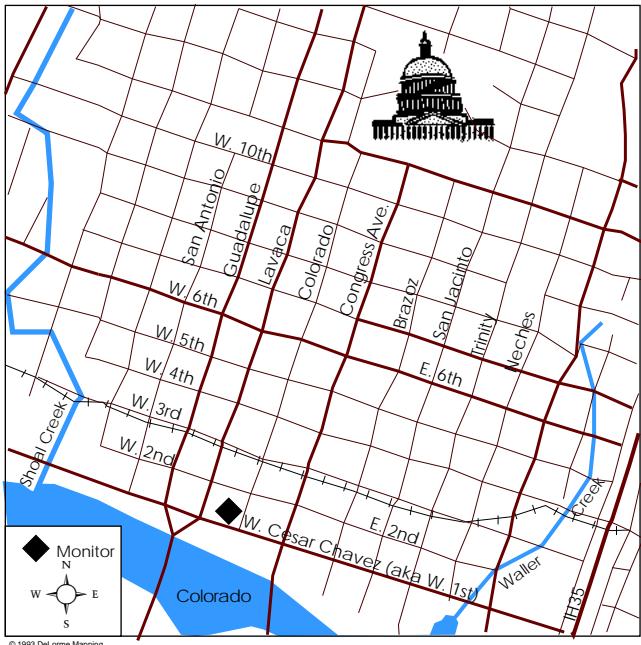
Map 2

This site is in an open field adjacent to Hambrick Junior High School at 4510 Aldine Mail Route. To the south is an open grass field, to the west is a sewage and water treatment plant, and to the north is a residential area. Houston Intercontinental Airport is 3.8 miles north and Eastex Freeway (U.S. Highway 59) is 0.7 miles east. It began operating on Nov. 12, 1995. Prevailing winds are from the south-south-east.

Monitoring Sites



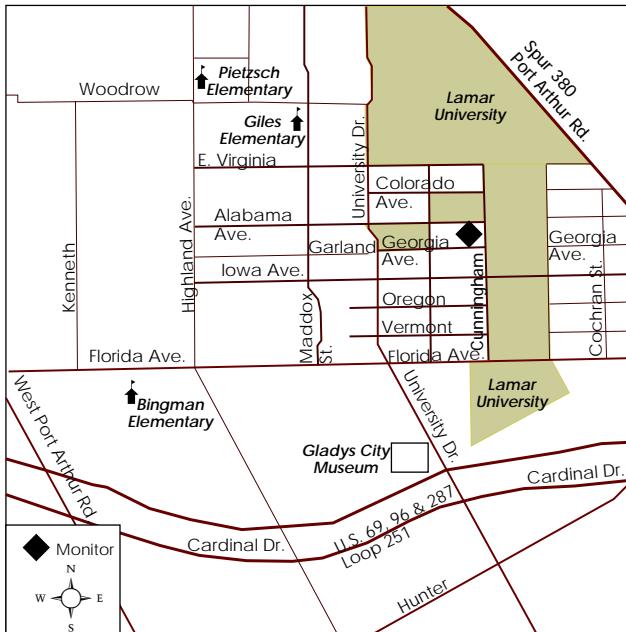
Austin Site *Travis County*



Map 3

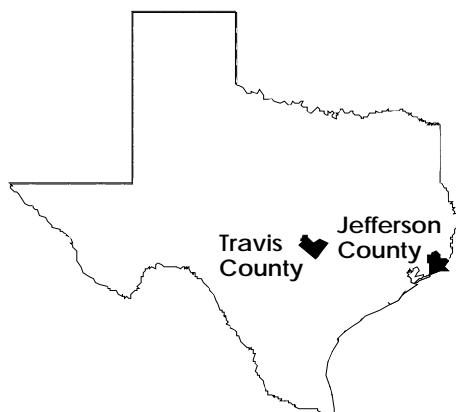
This site is located in downtown Austin at the corner of West Cesar Chavez and Colorado streets. Land use is primarily commercial to the north, east, and west of the site. Town Lake lies south of the site across Cesar Chavez. Mobile emissions are the primary nearby sources of airborne toxics. The site began operating on July 31, 1994. Prevailing winds are from the south.

Beaumont Site *Jefferson County*

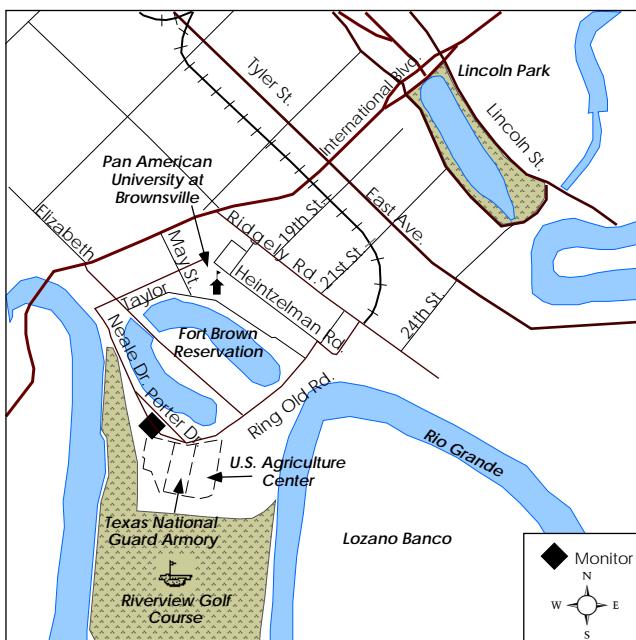


Map 4

This site is located at the intersection of Georgia Avenue and Cunningham Street in a parking lot south of Lamar University. The site is in a residential neighborhood with single-family and multifamily housing. Mobile emissions are the primary nearby sources of airborne toxics. Oil refining is a major industry in the Beaumont area; however, this site is not located to measure industrial emissions. It started operating on Nov. 19, 1992. Prevailing winds are from the south.



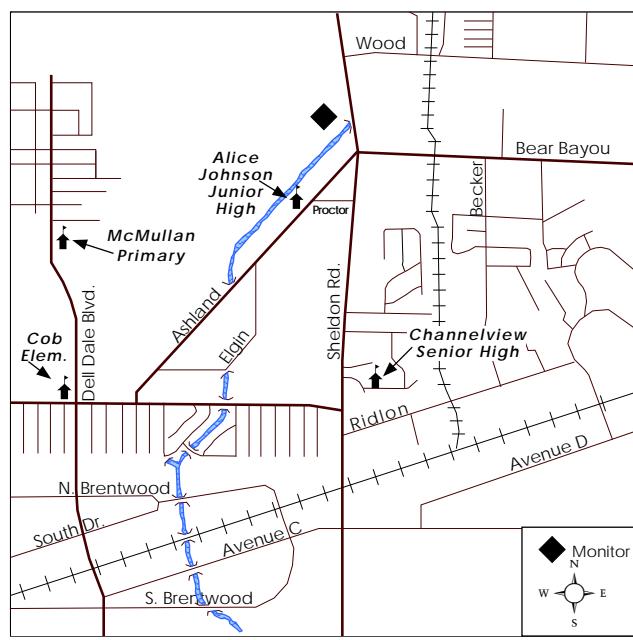
Brownsville Site Cameron County



Map 5

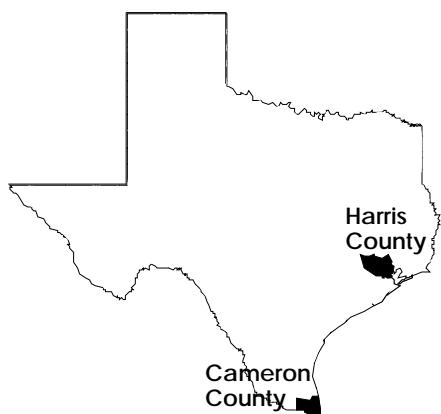
This site is at 344 Porter Drive on the grounds of the National Guard Armory. The site is just south of the University of Texas — Pan American campus, just southeast of Gateway International Bridge between Brownsville and Matamoros, Mexico, and just west of downtown Brownsville. It started operating on Sept. 4, 1993. Prevailing winds are from the southeast.

Channelview Site Harris County

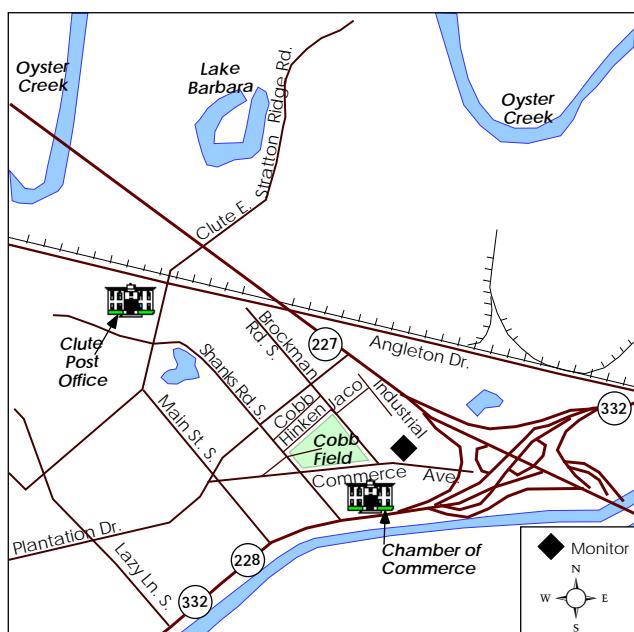


Map 6

This site is at 1401 Sheldon Road, one-quarter of a mile northeast of Alice B. Johnson Junior High School near the maintenance building for the Channelview Independent School District. It is in a highly populated area. The area immediately surrounding it is open with grass and a few trees. Land use south of the site is primarily single-family residences. A petrochemical company and several other companies operate north of this site. The site began operating on Nov. 20, 1992. Prevailing winds are from the south-south-east.



Clute Site Brazoria County



Map 7

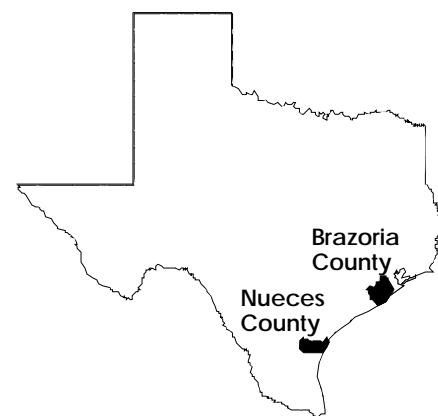
This site is at 426 Commerce Avenue near a baseball field. It is just west of the intersection of Texas highways 227, 288, and 332. There are several industrial facilities to the north, south, and southeast of the site. Immediately north of the site is a residential neighborhood. It began operating on Nov. 20, 1992. Prevailing winds are from the southeast.

Corpus Christi Site Nueces County



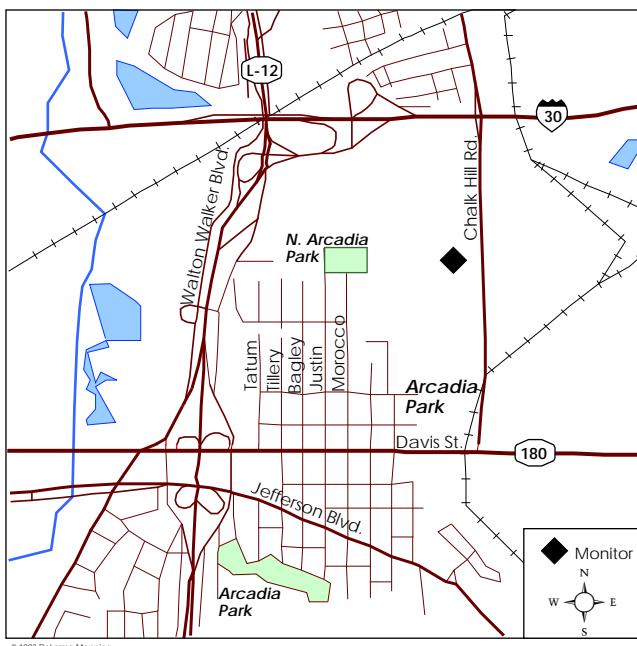
Map 8

This site, at 1111 Navigation Boulevard, is just north of Interstate Highway 37 on the grounds of the humane society in a highly populated area. Land use near the site is primarily single-family residential and commercial, although industrial facilities are visible to the northwest. Commercial operations near the site include gas stations and motels. One-quarter of a mile north of the site is a refinery, and further to the north is the Intercoastal Waterway. The site began operating on Jan. 1, 1993. Prevailing winds are from the south-southeast.



Dallas Site

Dallas County



Map 9

This site, at 1601 Chalk Hill Road, is on a radio tower at the TXI repair facility near the Eagle Ford School District building. It is in west Dallas. The area has mostly mobile sources of air pollution and relatively few industrial emissions. Immediately surrounding the site is an open area with grass and a few trees. Beyond the open area are commercial establishments and major roadways, including Texas Highway 180 and Interstate Highway 30. It started operating on Feb. 24, 1993. Prevailing winds are from the south.

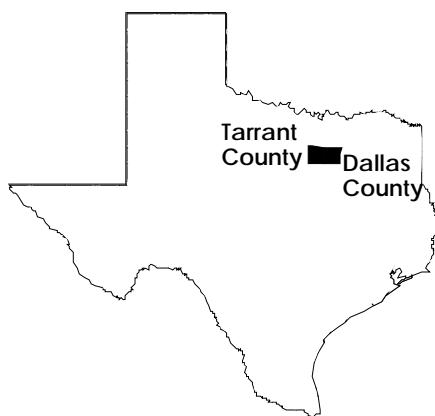
Dallas-Fort Worth Airport Site

Tarrant County



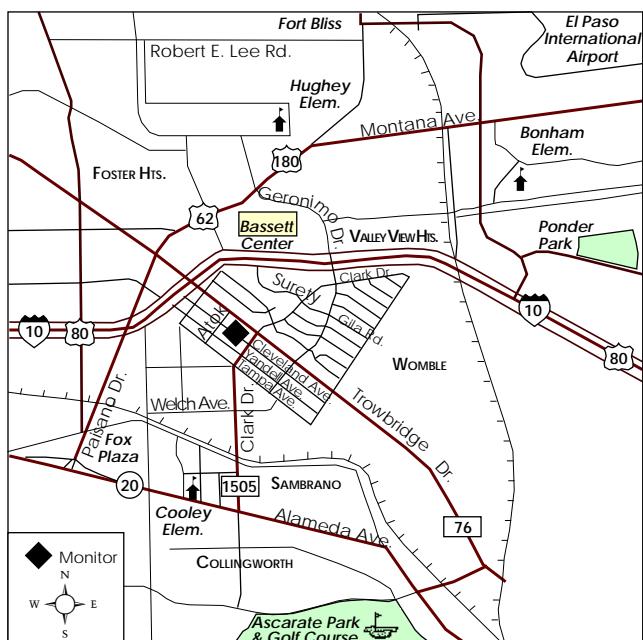
Map 10

This site is located on North Airfield Drive at the Dallas-Fort Worth International Airport. It is at the far north end of the airport just south of Texas Highway 114 and International Parkway intersection near the north parking shuttle. The area is predominantly commercial in all directions. There are no residential areas in the immediate vicinity. Operations began on Aug. 12, 1994. Prevailing winds are from the south.



El Paso Site

El Paso County

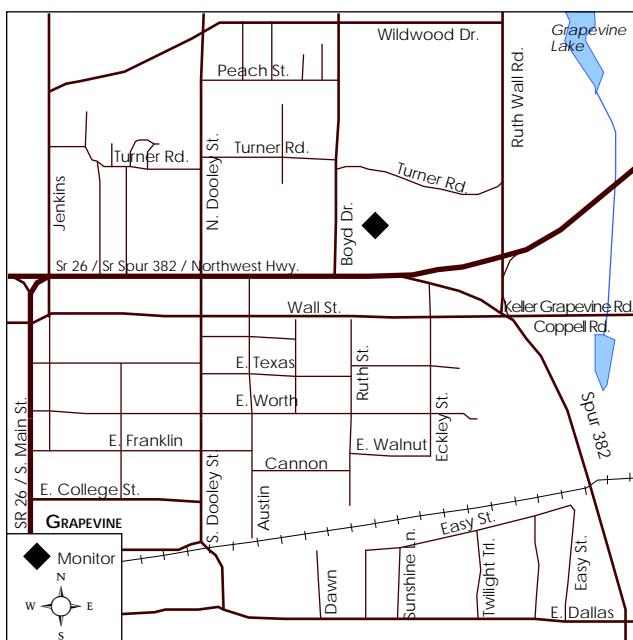


Map 11

This solar-powered site is at the intersection of Clark Drive and Cleveland Avenue south of Interstate Highway 10. The site is on an unpaved lot that contains two city water tanks and a water well. It is in a residential area with primarily single-family homes. There are two refining facilities approximately two blocks east (1,200 meters) from the site. It started operating on May 13, 1993. Prevailing winds are from the north.

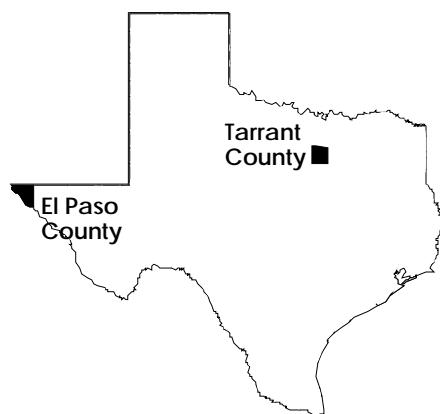
Grapevine Site

Tarrant County



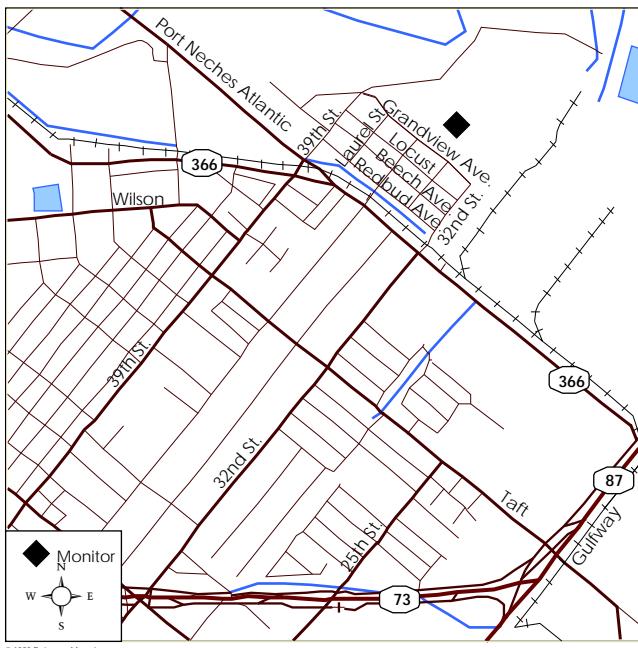
Map 12

This site is at the fire station at 601 Boyd Drive in Grapevine. Residential areas are located to the north and east of the site. Areas to the south and west are primarily commercial. This site began operating on July 1, 1994. Prevailing winds are from the south.



Groves Site

Jefferson County

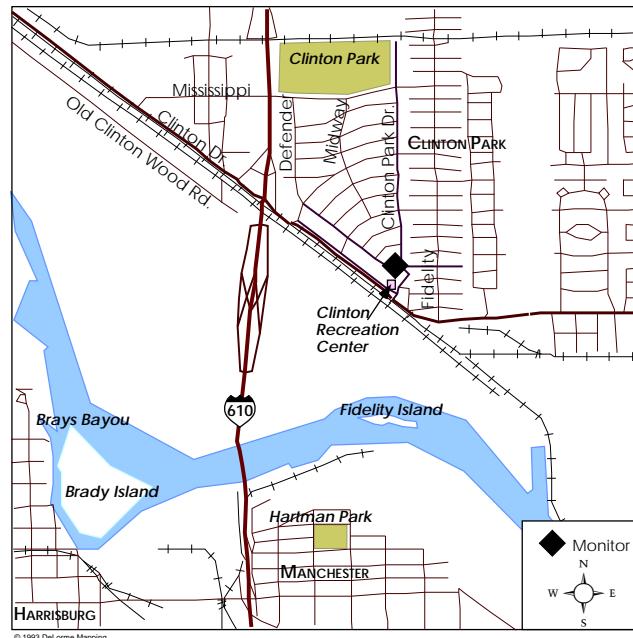


Map 13

This site is on a vacant lot at 3355 Grandview Avenue in a residential area adjacent to a petrochemical refinery. The lot is covered with grass and a few trees. Several houses have been removed from this area in recent months as part of a buyout by the refinery. The site began operating on Sept. 4, 1993. Prevailing winds are from the south.

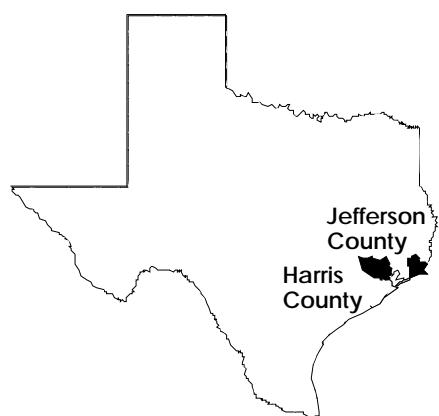
Houston (Clinton Drive) Site

Harris County



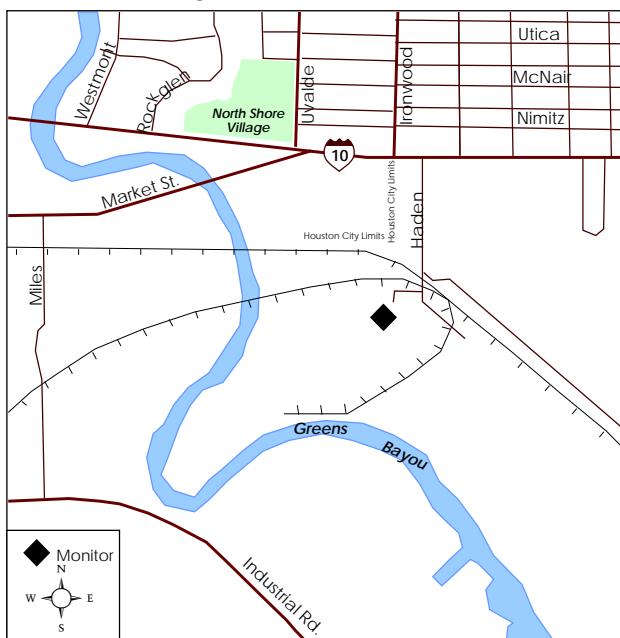
Map 14

This site is at 9525 Clinton Drive in the parking lot of an adult day care center, which is in a highly populated area. South across Clinton Drive are railroad tracks and the Houston Ship Channel. West, north, and east of the site are residential neighborhoods. This site is affected by both industrial sources from the Houston Ship Channel and mobile sources from Clinton Drive. It began operating on Nov. 19, 1992. Prevailing winds are from the south-southeast.



Houston (Haden Road) Site

Harris County



Map 15

This site is at 1504 Haden Road. It is colocated with a site operated by the Houston Regional Monitoring Network (HRM), thus allowing a check for monitor precision. The monitor is less than one mile from a chemical plant, and other chemical and petroleum refining facilities are within five miles of the site. To the west and northwest are shopping and fast food facilities. To the north and east are residential neighborhoods. The site started operating on Dec. 26, 1992. Prevailing winds are from the south-southeast.

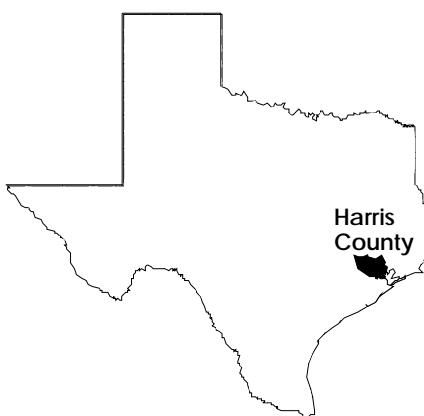
Houston (Old Galveston Road) Site

Harris County



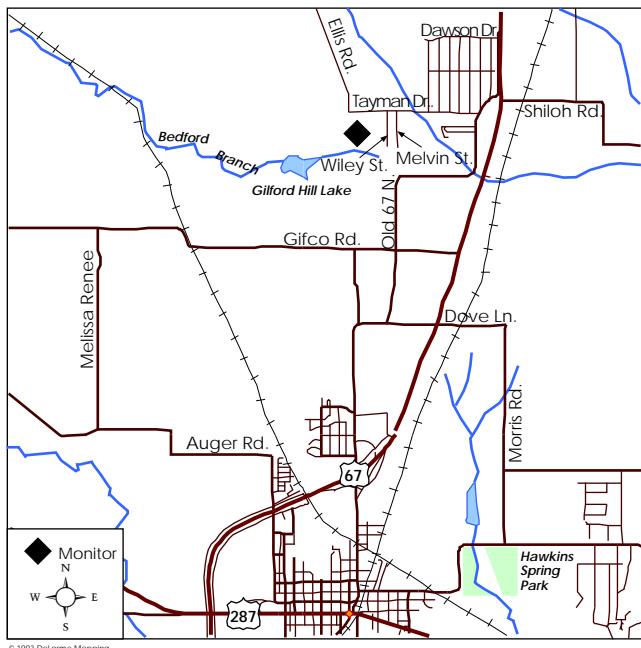
Map 16

This solar-powered site is at 3100 Old Galveston Road. Several industrial facilities are within two miles of the area, including a wastewater treatment plant and chemical and petroleum refining facilities. A large gasoline storage terminal is north of the monitoring site. Residential neighborhoods lie within two miles to the south, southwest, and west of this site. It began operating on Jan. 25, 1993. Prevailing winds are from the south-southeast.



Midlothian Site

Ellis County

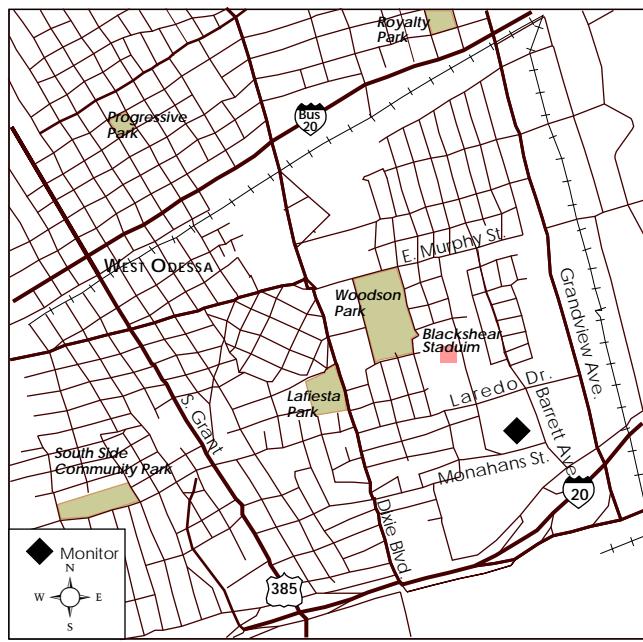


Map 17

This site is at 440 Tayman Drive on the first floor roof of the Midlothian Water Treatment Plant just south of a paved parking lot. It was established in response to citizen concerns about hazardous waste burning in nearby cement kilns and emissions from other industry. It is located in a primarily agricultural rural area. There are residences to the east and northeast of the monitor. It began operating on Jan. 25, 1993. Prevailing winds are from the south.

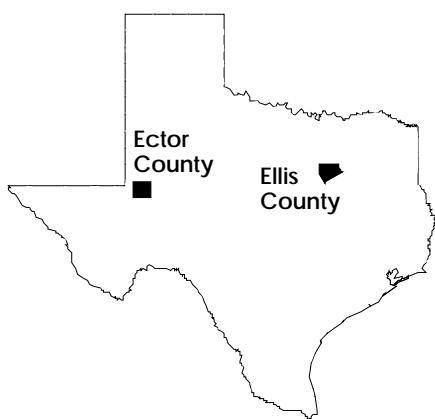
Odessa Site

Ector County



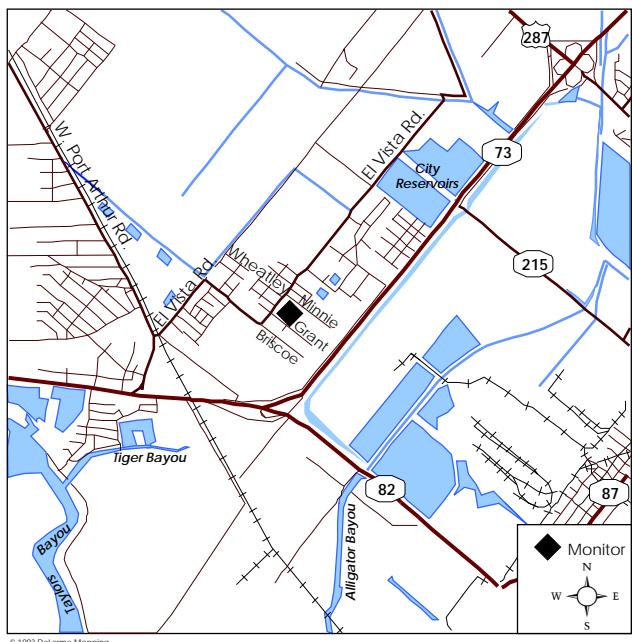
Map 18

This solar-powered site is on the grounds of Hays Elementary School, 400 feet west of the school building at the intersection of Barrett Avenue and Monahans Street. The site is north of Interstate Highway 20. The area immediately surrounding the site is primarily vacant fields with Blackshear and Milam schools nearby. North and west of the site are residential areas with parks. South and east of the site are industrial areas and an oil field that includes a refinery and solar ponds. The site is also affected by vehicle emissions. It started operating on Feb. 12, 1993. Prevailing winds are from the south-southeast.



Port Arthur Site

Jefferson County

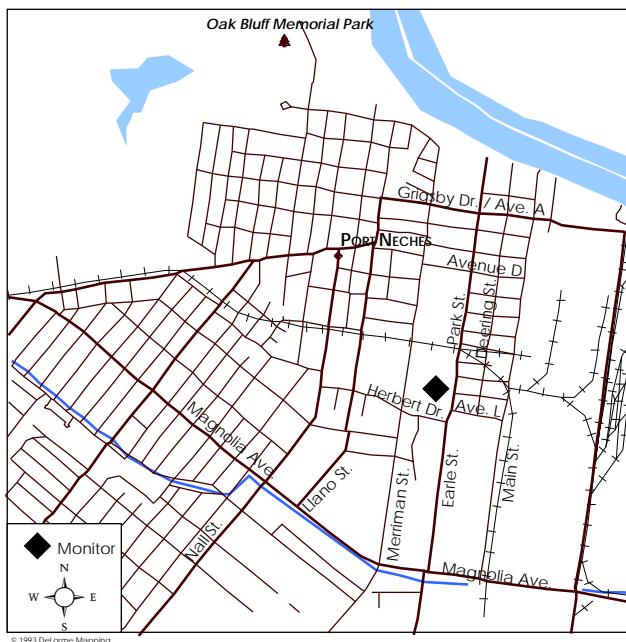


Map 19

This site is at 800 El Vista on a grassy playground on the grounds of Wheatley Elementary School. Residences, a church, and a park are in the area immediately surrounding the school. Several refining facilities are to the south and southeast of the site. It began operating on Nov. 19, 1992. Prevailing winds are from the south.

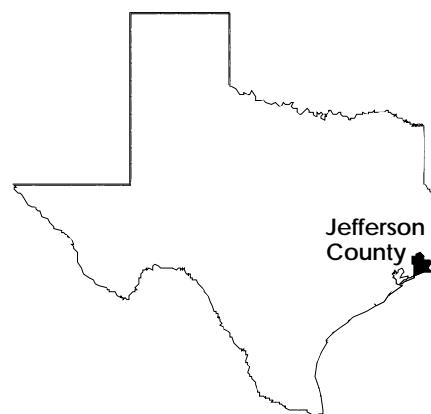
Port Neches Site

Jefferson County



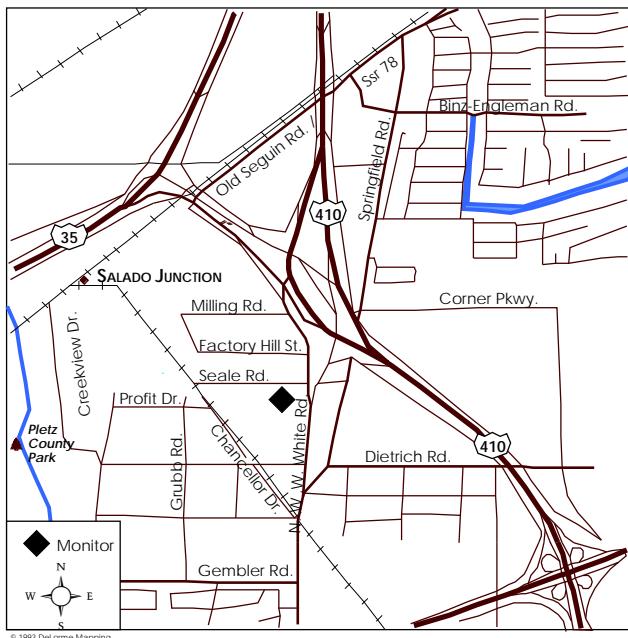
Map 20

This site is at 1225 Merriman Street on the grounds of a community baseball field. Residences and several schools are in the immediate area. There are several refining facilities located to the south and southeast of the site. The site began operating on July 25, 1994. Prevailing winds are from the south.



San Antonio Site

Bexar County

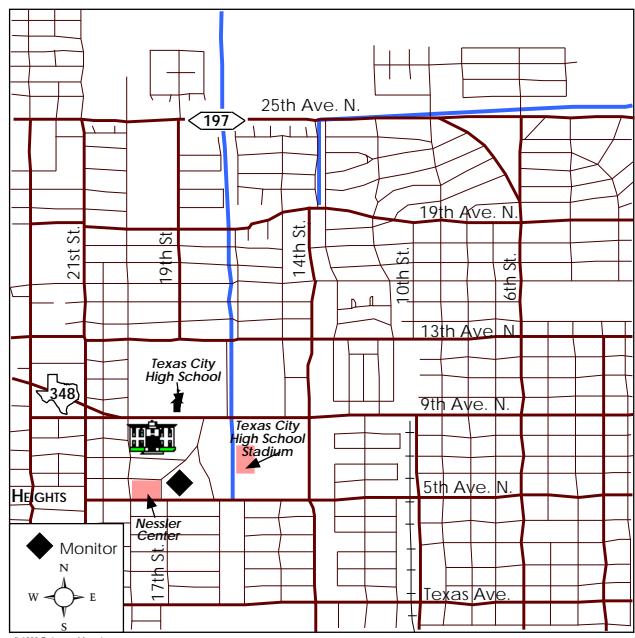


Map 21

The San Antonio site is at 254 Seale Road at the Van Dyke Service Center in a predominantly residential and commercial area. There are open grassy areas north and northwest of the monitor. Petroleum storage tanks are located to the southwest of the monitor. The area is affected by mobile emissions from W.W. White Road and Interstate Highway 410. The site started operating on July 13, 1994. Prevailing winds are from the southeast.

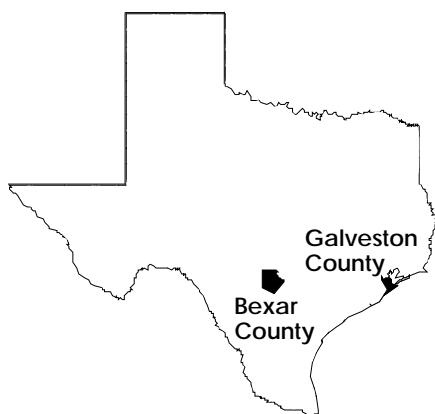
Texas City Site

Galveston County

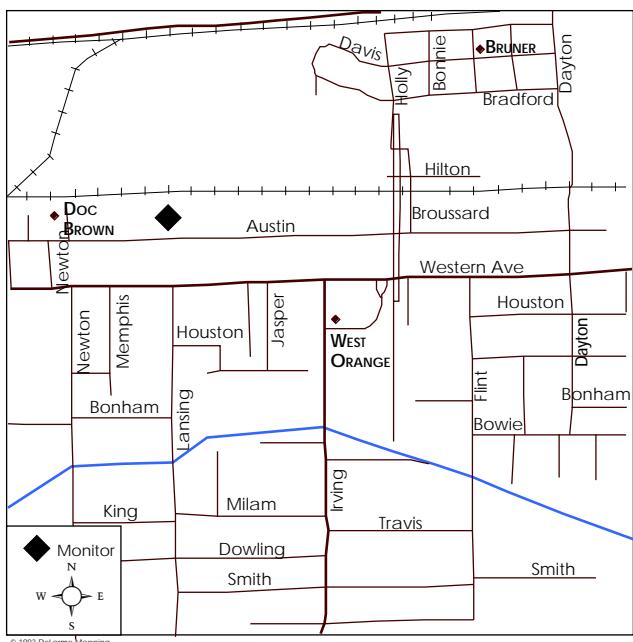


Map 22

This site is on a small, one-story brick building adjacent to the Nessler Center swimming pool at 17th Street and 5th Avenue. It is in a highly populated area. The Galveston County Health District owns and operates the monitor and developed the site location. Land use around the site is primarily recreational. Immediately south of the park are single-family residences. North of the site is a grass-covered park. Numerous petrochemical plants and refineries are located from the southeast to the southwest from 1.5 to 3.5 miles from the site. It began operating on Oct. 27, 1992. Prevailing winds are from the northeast.



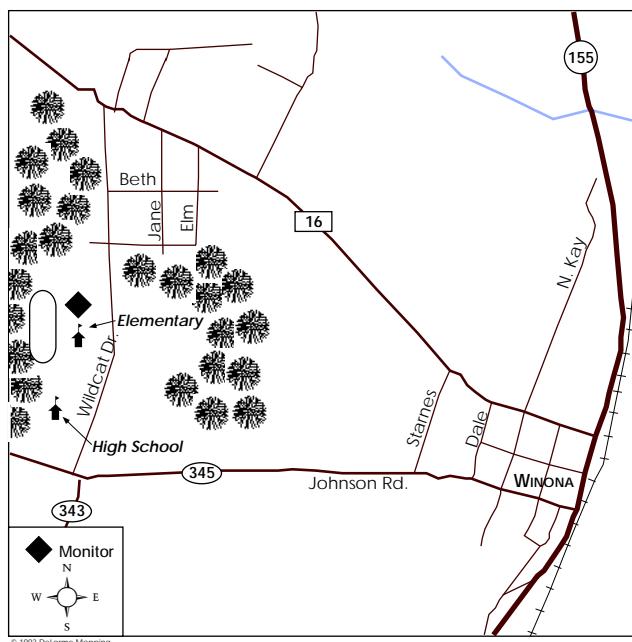
West Orange Site Orange County



Map 23

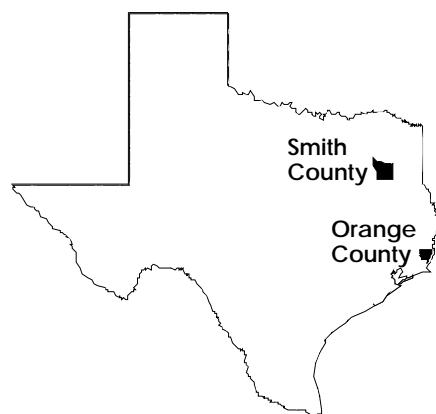
This site, at 2700 Austin Avenue, is near the grounds of West Orange City Hall. A city equipment facility and police headquarters are also nearby. Residences are located to the south and northeast of the site. The site began operating on July 25, 1994. Prevailing winds are from the south.

Winona Site Smith County



Map 24

This site is at 605 Wildcat Drive on the grounds of property owned by Winona Independent School District. Elementary, middle, and high schools are located at this site. There are residential areas to the north and northeast. Areas to the east, west, and south of the site are wooded with some pastures. The nearest industrial facility is a chemical manufacturer located two miles south-southeast of the monitor. The site is also affected by vehicle emissions. It began operating on June 25, 1994. Prevailing winds are from the south. ♦



Compounds Monitored

The majority of the compounds were selected from the U.S. Environmental Protection Agency (EPA) Photochemical Assessment Monitoring Station target list (EPA/454/B-93-051) and the Method TO-14 (Determination of VOCs in Ambient Air Using SUMMA® Passivated Canister Sampling and Gas

Chromatographic Analysis) target list. During 1995, the TNRCC laboratory measured 69 compounds.

Monitored compounds were selected based on a number of factors including their known applicability to the canister collection technique. Some compounds were selected based on emission quantities, the expected frequency

Sampling and Analysis

Compounds monitored primarily to provide data required by EPA for evaluation of the formation of ozone or for other purposes are:

n-Butane	2-Methylheptane
1-Butene	3-Methylheptane
c-2-Butene	2-Methylhexane
t-2-Butene	3-Methylhexane
2-Chloropentane	2-Methylpentane
Cumene	3-Methylpentane
Cyclohexane	2-Methyl-1-pentene
Cyclopentane	4-Methyl-1-pentene
n-Decane	n-Nonane
2,2-Dimethylbutane	n-Octane
2,3-Dimethylbutane	n-Pentane
2,3-Dimethylpentane	1-Pentene
2,4-Dimethylpentane	c-2-Pentene
n-Heptane	t-2-Pentene
n-Hexane	a-Pinene
c-2-Hexene	b-Pinene
t-2-Hexene	n-Propane
Isobutane	n-Propylbenzene
Isopentane	Propylene
Isoprene	Trichlorofluoromethane
3-Methyl-1-butene	2,2,4-Trimethylpentane
2-Methyl-2-butene	2,3,4-Trimethylpentane
Methylcyclohexane	n-Undecane
Methylcyclopentane	

Compounds monitored primarily due to their potential to cause health effects resulting from long-term exposure are:

Benzene	Methylene Chloride
Bromomethane	Perchloroethylene
1,3-Butadiene	Styrene
Carbon Tetrachloride	Toluene
Chlorobenzene	1,1,2-Trichloroethane
Chloroform	Trichloroethylene
1,1-Dichloroethane	1,2,4-Trimethylbenzene
1,2-Dichloroethane	1,3,5-Trimethylbenzene
1,1-Dichloroethylene	Vinyl Chloride
1,2-Dichloropropane	o-Xylene
Ethyl Benzene	m- and p-Xylenes

of occurrence, and their potential to cause health effects resulting from long-term exposure. Others were selected to provide the EPA information on compounds that can react in the atmosphere to form ozone and for other purposes. In this report, data for all of the compounds monitored were evaluated with respect to their potential to cause adverse health effects in the general public.

Sampling Duration and Frequency

Air samples were collected into clean, evacuated stainless steel canisters that had been passivated to provide an inert surface. The filled canisters were returned to the agency's Austin laboratory for analysis. Air samples were collected for 24 hours every sixth day.

Analytical Methods and Validation

Samples were analyzed by gas chromatography using mass spectroscopy detection in accordance with EPA Method TO-14 as published in the *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air* (EPA/600/4-89-017).

Data validation is a routine part of the TNRCC's quality assurance/quality control process. Agency staff closely examine all air pollutant data and the conditions under which they were recorded to determine whether the data were valid and whether

individual measurements were representative of ambient conditions. Only valid measurements were included in the analysis and calculation of annual means.

In order for the data collected to be evaluated as representative of the annual concentration of VOCs present in the ambient air, TNRCC's goal for data completeness for this monitoring network is 75 percent data return, or 45 valid samples per year from each site. In addition, every season must have 75 percent data return in order for the annual VOC concentrations to be representative of a site. Due to technical problems, data are not complete for every site for 1995. Sites for which data were limited were Aldine, Austin, DFW Irving, Grapevine, Port Arthur, San Antonio, West Orange, and Winona. The Aldine site began collecting samples in November 1995.

All data were entered into the TNRCC's air toxics database, but the measurements that were invalidated were flagged and were not used in this report's data summaries and evaluation.

Summary Statistics

TNRCC staff calculated summary statistics for each compound measured at each site from 1992 through 1995. The summary statistics for 1992 were calculated from less than

one full calendar year of sampling because the first network monitors were installed during the latter part of that year. The statistics include:

- the number of valid samples,
- the number of samples greater than or equal to the compound's method detection limit (MDL),
- the mean or average of a year's worth of 24-hour measurements,
- the median, and
- the maximum and second highest measurements.

These statistics are listed in Appendix A. Each page contains the summary data for one compound. The mean is calculated for each compound for each

year. The MDL for each compound was determined experimentally using EPA methods (40 Code of Federal Regulations Part 53, Appendix B). If a compound is found at or above its MDL, one can be 99 percent certain of its presence in an air sample.

The data return goal for the Community Air Toxics Monitoring Network is at least 75 percent. Data return rates less than this indicate that a portion of data is missing, which may bias (increase or decrease) the annual average concentrations. (The main reason for missing data was design deficiencies in the air samplers.) ◆

Frequently Found Compounds in Texas

Benzene was frequently detected in urban air samples statewide in 1995. It was detected in 100 percent and 94 percent of the samples at the Clinton Drive and El Paso sites, respectively, but was detected in only 12 percent of the samples at the Midlothian site. Of the 69 compounds measured in 1995, 10 compounds were detected in 50 percent or more of the samples. These compounds are: n-butane, isopentane, n-pentane, n-hexane, propane, isobutane, benzene, 2,3-dimethylbutane, propylene, and toluene.

Comparison of Measured Levels to Health-Based Screening Levels

Measured concentrations of the 69 monitored compounds were compared to the TNRCC's health-based 24-hour and annual screening levels. Health-based screening levels are set well below levels reported in the scientific literature to cause adverse health effects and are set to protect the general public, including sensitive subgroups such as children, the elderly, or people with existing respiratory conditions. If an air concentration of a compound is below the screening level, adverse effects are not expected. If an air concentration of a compound is above the screening level, it is not indicative that an adverse

effect will occur, but rather that further evaluation is warranted. (For more information about screening levels, contact TNRCC's Toxicology and Risk Assessment Section at 512-239-1795.)

Data from all sites were evaluated. However, for sites with incomplete data, there is some uncertainty about whether the data reported adequately represent actual ambient annual concentrations. The annual average concentration of a compound by site was compared to the compound's annual screening level to evaluate the potential for long-term or chronic health effects to occur. Individual 24-hour concentrations were also compared to the 24-hour screening level.

Measured concentrations of the 69 compounds were less than their respective 24-hour and annual health-based screening levels, except for benzene and 1,3-butadiene. At 13 of the 23 monitoring sites in the network, none of the concentrations of compounds exceeded either their annual or 24-hour screening levels. Therefore, adverse health effects would not be expected to result from exposure to these compounds at the concentrations measured in those 13 sites.

Results and Conclusion

1,3-Butadiene

Monitoring results showed that 1,3-butadiene exceeded its 24-hour screening level of 20 ppbv once in Port Arthur in 1995. The highest concentration of 1,3-butadiene during 1995 was 89.8 ppbv. The maximum 24-hour concentrations of 1,3-butadiene were less than levels that would result in acute health effects. The annual averages of 1,3-butadiene at all sites were below the annual screening level of 5 ppbv. No adverse health effects would be expected as a result of exposure to these concentrations of 1,3-butadiene.

Benzene

Benzene was the only monitored compound that was consistently measured above its screening levels. Benzene exceeded the 24-hour screening level at seven sites and the annual screening level at eight sites in 1995. Figure 1 shows sites where the annual benzene concentration exceeded the screening level during 1993, 1994, or 1995. Only sites that met TNRCC's goal for data completeness are graphed because comparisons between sites with lower data return may be inappropriate.

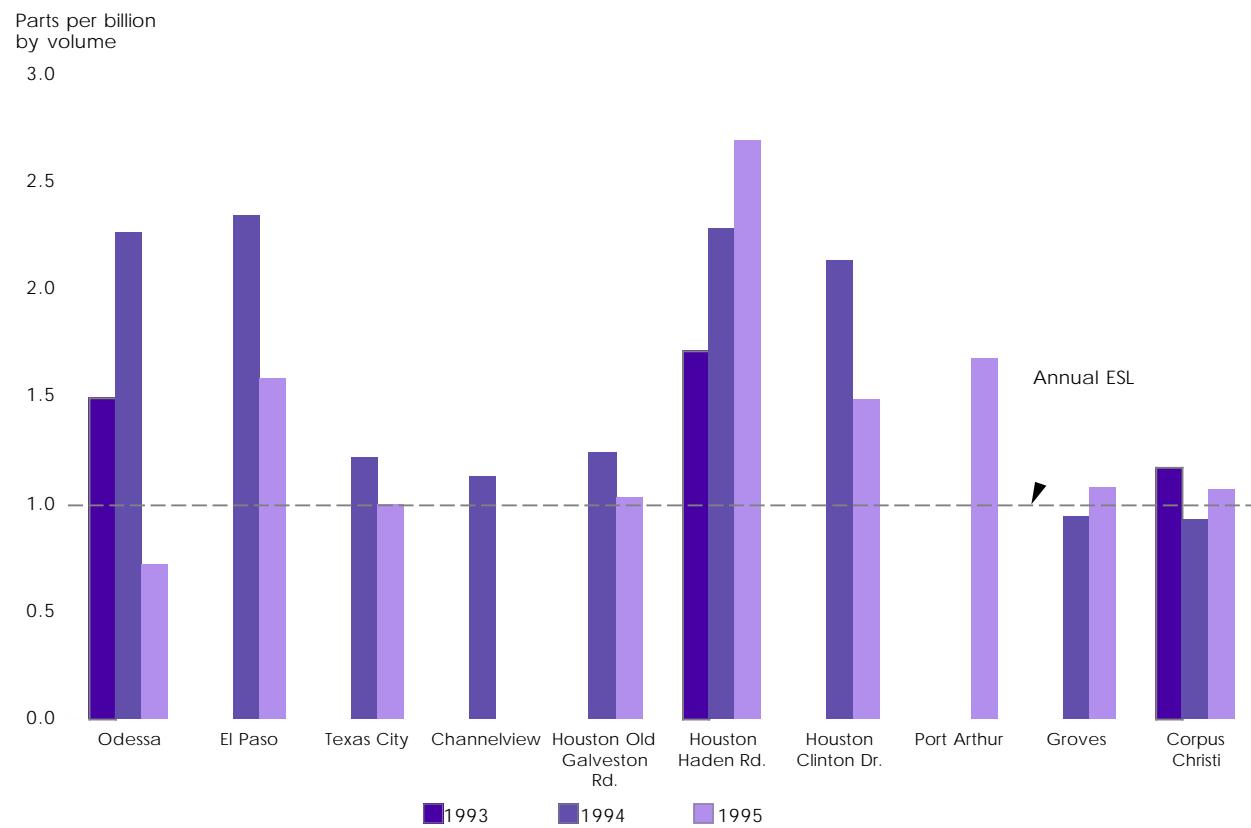


Figure 1. Sites Where Benzene Exceeded its Annual Effects Screening Level in 1993, 1994 or 1995

In 1995, benzene concentrations exceeded the 24-hour screening level of 4 ppbv at Haden Road in Houston, El Paso, Groves, Port Arthur, Corpus Christi, Brownsville, and Midlothian. The highest benzene measurement of 63.6 ppbv was sampled at the Houston (Haden Road) monitoring site on Sept. 12, 1995. The concentration was not associated with elevated levels of any other measured organic compounds. This finding indicates that the source was not from automobiles. The maximum 24-hour concentrations of benzene were less than levels that would result in acute health effects.

Benzene concentrations exceeded the annual screening level of 1 ppbv in 1995 at Houston sites Haden Road, 2.70 ppbv, Clinton Drive, 1.49, and Old Galveston Road, 1.03; Channelview, 1.05; Port Arthur, 1.68; Corpus Christi, 1.06; Groves, 1.08; and El Paso, 1.58 (Figure 1). The highest mean benzene level at a site where more than 45 samples were taken in 1995 was 2.7 ppbv at the Haden Road (Houston) site. The Clute, Dallas, and Brownsville sites had the lowest annual average benzene concentrations of sites with at least 75 percent data return rate. The average concentrations at these sites were less than the health-based screening level.

Long-term exposures to levels of benzene significantly in excess of the annual screening level may increase a person's lifetime risk of developing leukemia. While the measured levels at the eight monitoring sites where benzene exceeded its annual screening level do not significantly increase the risk of adverse health effects associated with benzene exposure, the TNRCC considers it important that benzene levels do not significantly increase.

Conclusion

In general, concentrations of the compounds monitored are below levels of concern from a health effects standpoint. Levels of benzene, while above health-based screening levels at several of the sites monitored, are typical of levels present in ambient air in most urban areas throughout the country. The levels of benzene monitored do not represent a meaningful increase in long-term exposure above the health-based screening level, and do not significantly increase the risk of adverse health effects associated with benzene exposure. Sites where higher concentrations are monitored are targeted for additional agency efforts to better define and reduce potential public exposure. ♦

Benzene Data Summary

1992 - 1995

MDL = 0.50

24-Hour ESL = 4.00

Annual ESL = 1.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	13	0.66	0.55	1.46	1.17	0.33
San Antonio			95	4	2	0.59	0.53	0.86	0.62	0.20
Brazoria	39	1003	92	7	3	0.40†	0.21†	0.93	0.65	0.34
Clute			93	36	26	0.78	0.72	2.24	1.49	0.42
			94	53	21	0.40†	0.34†	1.21	1.01	0.27
			95	62	25	0.48†	0.44†	1.42	1.33	0.24
Cameron	61	6	93	4	3	0.85	0.91	1.56	1.09	0.66
Brownsville			94	44	13	0.49†	0.41†	1.68	1.54	0.36
			95	57	16	0.60	0.34†	8.98 **	1.85	1.19
Dallas	113	70	93	49	19	0.45†	0.40†	1.47	1.46	0.34
Dallas			94	58	22	0.46†	0.43†	1.60	1.10	0.29
			95	57	14	0.47†	0.39†	1.42	1.36	0.27
Ector	135	3	93	52	46	1.51 *	1.17	4.78 **	4.57 **	1.18
Odessa			94	59	44	2.26 *	1.14	19.40 **	13.06 **	3.33
			95	59	31	0.72	0.54	2.24	2.02	0.51
Ellis	139	7	93	55	13	0.39†	0.37†	1.00	0.94	0.23
Midlothian			94	49	3	0.26†	0.22†	0.80	0.73	0.16
			95	58	7	0.81	0.25†	20.57 **	4.33 **	2.74
El Paso	141	47	93	33	33	2.26 *	2.05	8.73 **	4.01 **	1.54
El Paso			94	58	55	2.34 *	1.36	11.27 **	11.02 **	2.34
			95	55	52	1.58 *	1.15	5.01 **	4.69 **	1.08
Galveston	167	53	92	9	6	1.42 *	0.99	5.67 **	1.92	1.73
Texas City			93	39	29	0.97	0.83	2.86	2.52	0.65
			94	51	41	1.21 *	1.04	4.16 **	4.12 **	0.90
			95	47	36	0.99	0.94	3.52	2.85	0.63
Harris	201	24	95	7	7	0.81	0.72	1.28	0.87	0.22
Aldine										
Harris	201	26	92	7	6	1.39 *	1.13	3.31	2.31	1.12
Channelview			93	39	35	1.16 *	0.95	3.11	2.76	0.72
			94	59	55	1.13 *	1.02	2.64	2.52	0.56
			95	41	38	1.05 *	0.79	3.01	2.73	0.69
Harris	201	64	93	43	37	1.19 *	0.99	6.54 **	2.48	1.06
Houston, Allendale			94	46	39	1.24 *	0.91	4.03 **	3.40	0.91
			95	53	36	1.03 *	0.79	3.57	2.98	0.83
Harris	201	803	92	1	1	1.07 *		1.07		
Houston, Haden			93	56	50	1.72 *	1.21	10.83 **	6.57 **	1.90
			94	58	52	2.28 *	1.15	35.17 **	10.60 **	4.75
			95	57	51	2.70 *	1.00	63.63 **	18.08 **	8.59
Harris	201	1035	92	8	5	1.17 *	1.12	3.05	1.80	0.99
Houston, Clinton			93	39	37	1.29 *	1.21	2.40	2.28	0.56
			94	58	50	2.14 *	1.56	11.41 **	10.85 **	2.49
			95	46	46	1.49 *	1.35	3.64	3.37	0.77

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Benzene Data Summary (continued)

1992 - 1995

MDL = 0.50

24-Hour ESL = 4.00

Annual ESL = 1.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Jefferson Beaumont	245 9	92	7	1	0.33†	0.42†	0.58	0.44†	0.21
		93	40	34	0.88	0.76	2.17	2.08	0.54
		94	59	45	0.81	0.74	2.18	1.99	0.46
		95	61	47	0.73	0.72	1.56	1.42	0.31
Jefferson Port Arthur	245 11	92	7	3	0.50†	0.37†	1.55	0.64	0.51
		93	44	29	0.95	0.70	4.85 **	3.60	0.94
		94	22	15	1.37 *	0.71	5.38 **	4.71 **	1.53
		95	58	44	1.68 *	0.70	14.40 **	12.47 **	2.75
Jefferson Groves	245 14	93	18	18	2.17 *	1.19	7.81 **	7.28 **	2.18
		94	58	43	0.95	0.78	5.41 **	3.41	0.85
		95	53	42	1.08 *	0.87	6.46 **	3.23	0.96
Jefferson Port Neches	245 17	94	23	12	0.70	0.59	2.23	1.54	0.48
Nueces Corpus Christi	355 20	93	54	34	1.17 *	0.79	5.01 **	4.21 **	1.14
		94	52	33	0.93	0.66	4.67 **	2.22	0.83
		95	53	32	1.06 *	0.69	5.70 **	5.21 **	1.14
Orange West Orange	361 1001	94	27	12	0.48†	0.41†	1.16	0.81	0.22
		95	21	11	0.68	0.57	1.49	1.29	0.37
Smith Winona	423 5	94	32	10	0.44†	0.42†	1.11	0.84	0.21
		95	18	8	0.50†	0.44†	0.95	0.88	0.23
Tarrant Grapevine	439 3002	94	15	5	0.42†	0.43†	0.59	0.52	0.11
		95	13	3	0.45†	0.36†	1.18	0.60	0.24
Tarrant Irving, DFW Airport	439 3004	94	9	3	0.45†	0.43†	0.69	0.59	0.15
		95	6	2	0.43†	0.42†	0.55	0.50	0.09
Travis Austin	453 17	94	21	13	0.67	0.63	1.43	1.21	0.32

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Bromomethane Data Summary

1992 - 1995

MDL = 0.62

24-Hour ESL = 20.00

Annual ESL = 5.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	95	4	0	<.01	<.01	<.01	<.01	0.00
San Antonio										
Brazoria	39	1003	92	7	0	<.01	<.01	<.01	<.01	0.00
Clute			93	46	0	0.01†	0.01†	0.14†	0.04†	0.02
			94	4	0	0.01†	0.01†	0.02†	0.02†	0.01
			95	48	0	0.01†	<.01	0.23†	0.06†	0.03
Cameron	61	6	93	19	0	0.01†	0.01†	0.03†	0.02†	0.01
Brownsville			94	5	0	0.01†	0.01†	0.01†	0.01†	0.00
			95	43	0	0.01†	<.01	0.05†	0.04†	0.01
Dallas	113	70	93	49	0	0.01†	0.01†	0.02†	0.02†	0.01
Dallas			94	5	0	0.01†	0.01†	0.01†	0.01†	0.00
			95	43	0	0.01†	<.01	0.02†	0.01†	0.00
Ector	135	3	93	52	0	0.01†	0.01†	0.04†	0.03†	0.01
Odessa			94	5	0	0.01†	<.01	0.01†	0.01†	0.00
			95	44	0	0.01†	<.01	0.02†	0.02†	0.00
Ellis	139	7	93	55	0	0.01†	<.01	0.03†	0.03†	0.01
Midlothian			94	4	0	<.01	<.01	<.01	<.01	0.00
			95	43	0	0.01†	<.01	0.01†	0.01†	0.00
El Paso	141	47	93	33	0	0.01†	0.01†	0.03†	0.03†	0.01
El Paso			94	5	0	0.01†	0.01†	0.03†	0.01†	0.01
			95	42	0	0.01†	<.01	0.02†	0.01†	0.00
Galveston	167	53	92	9	0	0.01†	<.01	0.06†	<.01	0.02
Texas City			93	51	0	0.01†	0.01†	0.04†	0.03†	0.01
			94	5	0	0.01†	0.01†	0.02†	0.01†	0.01
			95	35	0	0.01†	<.01	0.03†	0.01†	0.00
Harris	201	24	95	7	1	0.19†	0.01†	1.25	0.01†	0.47
Aldine										
Harris	201	26	92	7	0	<.01	<.01	<.01	<.01	0.00
Channelview			93	49	0	0.01†	<.01	0.07†	0.04†	0.01
			94	5	0	0.01†	<.01	0.01†	0.01†	0.00
			95	42	0	0.01†	<.01	0.04†	0.03†	0.01
Harris	201	64	93	43	0	0.02†	0.01†	0.14†	0.10†	0.03
Houston, Allendale			94	5	0	0.01†	0.01†	0.03†	0.01†	0.01
			95	41	0	0.01†	<.01	0.05†	0.01†	0.01
Harris	201	803	92	1	0	<.01		<.01		
Houston, Haden			93	56	0	0.01†	<.01	0.05†	0.04†	0.01
			94	5	0	0.01†	<.01	0.01†	<.01	0.00
			95	43	0	0.01†	<.01	0.02†	0.01†	0.00
Harris	201	1035	92	8	0	<.01	<.01	<.01	<.01	0.00
Houston, Clinton			93	50	0	0.02†	0.01†	0.08†	0.07†	0.02
			94	5	0	0.05†	0.03†	0.16†	0.06†	0.06
			95	46	0	0.01†	<.01	0.13†	0.11†	0.03

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Bromomethane Data Summary (continued)

1992 - 1995

MDL = 0.62

24-Hour ESL = 20.00

Annual ESL = 5.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation	
Jefferson Beaumont	245 9	92	7	0	<.01	<.01	<.01	<.01	0.00	
		93	56	0	0.01†	<.01	0.10†	0.04†	0.02	
		94	5	0	0.01†	0.01†	0.01†	0.01†	0.00	
		95	46	0	0.01†	<.01	0.01†	0.01†	0.00	
Jefferson Port Arthur	245 11	92	7	0	<.01	<.01	<.01	<.01	0.00	
		93	60	0	0.01†	<.01	0.09†	0.03†	0.01	
		94	5	0	0.01†	0.01†	0.01†	0.01†	0.00	
		95	43	0	0.01†	<.01	0.01†	0.01†	0.00	
Jefferson Groves	245 14	93	18	0	0.02†	0.02†	0.03†	0.02†	0.01	
		94	5	0	0.01†	<.01	0.01†	<.01	0.00	
		95	40	0	0.01†	<.01	0.03†	0.02†	0.01	
Nueces Corpus Christi	355 20	93	55	0	0.01†	<.01	0.04†	0.03†	0.01	
		94	4	0	0.01†	0.01†	0.02†	0.01†	0.01	
		95	38	0	0.01†	<.01	0.02†	0.02†	0.00	
Orange West Orange	361	1001	95	7	<.01	<.01	<.01	<.01	0.00	
Smith Winona	423	5	95	14	0	0.01†	<.01	0.03†	0.03†	0.01
Tarrant Grapevine	439	3002	95	13	0	0.01†	<.01	0.02†	0.01†	0.00
Tarrant Irving, DFW Airport	439	3004	95	6	0	0.01†	<.01	0.03†	<.01	0.01

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

1,3-Butadiene Data Summary

1992 - 1995

MDL = 0.63

24-Hour ESL = 20.00

Annual ESL = 5.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	0	0.05†	<.01	0.18†	0.15†	0.06
San Antonio			95	4	0	0.04†	0.04†	0.08†	0.06†	0.03
Brazoria	39	1003	92	2	0	<.01	<.01	<.01	<.01	0.00
Clute			93	29	1	0.11†	<.01	1.07	0.50†	0.24
			94	53	2	0.09†	<.01	0.70	0.64	0.15
			95	62	1	0.13†	0.09†	0.98	0.43†	0.16
Cameron	61	6	93	19	0	<.01	<.01	<.01	<.01	0.00
Brownsville			94	59	0	0.09†	0.02†	0.59†	0.57†	0.13
			95	57	0	0.06†	0.04†	0.26†	0.25†	0.07
Dallas	113	70	93	34	0	0.02†	<.01	0.27†	0.14†	0.05
Dallas			94	58	0	0.04†	<.01	0.57†	0.27†	0.09
			95	57	0	0.07†	0.05†	0.55†	0.25†	0.09
Ector	135	3	93	39	7	0.26†	<.01	2.02	1.87	0.55
Odessa			94	59	14	1.48	0.07†	53.62 **	3.98	6.99
			95	59	13	0.42†	0.14†	3.38	2.85	0.69
Ellis	139	7	93	39	0	0.01†	<.01	0.34†	<.01	0.05
Midlothian			94	51	0	0.01†	<.01	0.08†	0.08†	0.02
			95	58	0	0.02†	<.01	0.11†	0.08†	0.02
El Paso	141	47	93	22	0	0.02†	<.01	0.44†	<.01	0.09
El Paso			94	58	2	0.12†	0.04†	0.96	0.66	0.18
			95	55	2	0.16†	0.13†	0.74	0.73	0.17
Galveston	167	53	92	5	1	0.26†	<.01	1.27	<.01	0.57
Texas City			93	35	1	0.07†	<.01	0.67	0.53†	0.16
			94	51	3	1.27	<.01	34.98 **	15.64	5.46
			95	47	3	0.18†	0.11†	1.21	0.76	0.24
Harris	201	24	95	7	0	0.16†	0.11†	0.47†	0.24†	0.16
Aldine										
Harris	201	26	92	5	0	0.16†	<.01	0.50†	0.28†	0.22
Channelview			93	28	3	0.17†	<.01	1.23	1.20	0.34
			94	59	13	0.40†	0.21†	2.74	1.69	0.55
			95	55	11	0.36†	0.26†	3.45	1.07	0.52
Harris	201	64	93	39	5	0.28†	<.01	1.81	1.80	0.55
Houston, Allendale			94	54	11	0.60†	0.10†	5.18	3.30	1.14
			95	53	15	0.88	0.18†	12.35	4.09	1.91
Harris	201	803	92	1	0	0.33†		0.33†		
Houston, Haden			93	33	1	0.05†	<.01	1.21	0.37†	0.22
			94	58	17	0.48†	0.26†	2.95	1.85	0.61
			95	57	20	0.80	0.33†	15.41	2.00	2.05
Harris	201	1035	92	6	0	<.01	<.01	<.01	<.01	0.00
Houston, Clinton			93	37	6	0.25†	<.01	1.61	1.57	0.44
			94	58	16	0.54†	0.12†	4.03	2.35	0.82
			95	60	13	0.62†	0.37†	10.76	2.66	1.41

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

1,3-Butadiene Data Summary (continued)
1992 - 1995

MDL = 0.63

24-Hour ESL = 20.00

Annual ESL = 5.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Jefferson Beaumont	245 9	92	7	0	0.02†	<.01	0.09†	<.01	0.03
		93	36	2	0.11†	<.01	0.83	0.72	0.21
		94	59	0	0.10†	<.01	0.54†	0.48†	0.14
		95	61	2	0.19†	0.15†	2.43	1.17	0.35
Jefferson Port Arthur	245 11	92	6	0	0.06†	<.01	0.32†	<.01	0.13
		93	45	2	0.09†	<.01	0.69	0.65	0.17
		94	57	5	0.20†	<.01	2.73	1.30	0.42
		95	58	11	2.18	0.13†	89.78 **	11.87	11.87
Jefferson Groves	245 14	93	18	0	<.01	<.01	<.01	<.01	0.00
		94	58	5	0.17†	<.01	1.39	1.35	0.33
		95	53	7	0.30†	0.02†	2.15	1.98	0.55
Jefferson Port Neches	245 17	94	23	15	5.94 *	1.80	27.75 **	20.15 **	7.58
Nueces Corpus Christi	355 20	93	39	0	0.01†	<.01	0.15†	0.09†	0.03
		94	52	0	0.03†	<.01	0.42†	0.20†	0.07
		95	53	2	0.10†	<.01	1.57	0.86	0.26
Orange West Orange	361 1001	94	27	2	0.17†	0.08†	0.71	0.69	0.21
		95	21	6	0.44†	0.04†	1.97	1.89	0.63
Smith Winona	423 5	94	32	1	0.29†	<.01	8.75	0.33†	1.54
		95	18	0	0.02†	<.01	0.21†	0.11†	0.05
Tarrant Grapevine	439 3002	94	15	0	0.01†	<.01	0.11†	0.04†	0.03
		95	13	0	0.04†	0.01†	0.22†	0.09†	0.06
Tarrant Irving, DFW Airport	439 3004	94	9	0	0.02†	<.01	0.10†	<.01	0.03
		95	6	0	0.04†	0.04†	0.10†	0.07†	0.04
Travis Austin	453 17	94	21	0	0.11†	0.06†	0.42†	0.35†	0.13

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

n-Butane Data Summary
1992 - 1995

MDL = 0.74

24-Hour ESL = 3,200.00

Annual ESL = 800.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	8	2.67	1.18	8.17	4.97	2.63
San Antonio			95	4	4	8.13	8.16	13.18	10.31	4.50
Brazoria	39	1003	94	14	8	1.51	0.76	4.32	3.85	1.41
Clute			95	62	57	2.84	2.49	19.46	6.59	2.63
Cameron	61	6	94	14	10	2.31	1.29	11.53	5.27	2.98
Brownsville			95	57	37	3.04	1.42	36.15	11.26	5.33
Dallas	113	70	94	14	7	1.37	0.72†	5.30	2.93	1.48
Dallas			95	57	54	3.43	2.23	19.59	16.41	3.81
Ector	135	3	94	14	10	1.61	0.91	6.34	5.47	1.93
Odessa			95	59	59	7.66	6.11	32.21	30.00	5.82
Ellis	139	7	94	12	8	2.52	1.20	14.60	4.64	4.04
Midlothian			95	58	46	1.49	1.40	3.94	3.50	0.87
El Paso	141	47	94	14	8	17.62	1.02	129.60	41.05	35.44
El Paso			95	55	54	9.10	6.46	62.05	33.39	10.03
Galveston	167	53	94	11	6	0.94	0.82	2.96	1.39	0.76
Texas City			95	47	45	5.41	4.40	13.84	13.40	3.62
Harris	201	24	95	7	7	6.73	6.75	10.83	8.98	2.66
Aldine										
Harris	201	26	94	15	9	2.52	0.78	14.84	7.43	3.93
Channelview			95	55	55	4.27	3.39	17.08	11.36	2.71
Harris	201	64	94	14	9	1.51	1.33	5.84	2.76	1.53
Houston, Allendale			95	53	51	6.28	3.76	25.46	23.77	6.21
Harris	201	803	94	14	12	3.20	1.72	9.94	9.80	3.34
Houston, Haden			95	57	57	7.61	4.82	54.72	46.48	9.11
Harris	201	1035	94	14	13	3.84	2.54	13.03	10.73	3.84
Houston, Clinton			95	60	60	6.97	5.73	20.01	18.20	4.31
Jefferson	245	9	94	15	14	4.15	2.59	17.96	9.12	4.53
Beaumont			95	61	60	15.95	5.68	595.30	16.27	75.48
Jefferson	245	11	94	14	10	2.13	1.03	8.86	8.39	2.88
Port Arthur			95	58	58	7.76	5.73	46.94	26.08	7.02
Jefferson	245	14	94	14	12	11.13	1.58	61.15	32.98	18.28
Groves			95	53	53	15.69	9.92	91.58	52.02	16.15
Jefferson	245	17	94	13	11	1.61	1.51	3.40	3.00	1.04
Nueces	355	20	94	14	11	3.07	1.59	14.67	7.30	3.91
Corpus Christi			95	53	52	8.37	4.57	70.72	32.04	11.08
Orange	361	1001	94	15	13	2.97	3.10	7.15	5.72	2.13
West Orange			95	21	21	10.41	6.40	58.14	26.96	12.52
Smith	423	5	94	15	7	1.54	0.53†	5.35	3.88	1.65
Winona			95	18	18	4.63	2.95	11.20	10.95	3.21
Tarrant	439	3002	94	1	0	<.01		<.01		
Grapevine			95	13	13	3.82	2.74	10.28	7.94	2.54
Tarrant	439	3004	94	3	0	<.01	<.01	<.01	<.01	0.00
Irving, DFW Airport			95	6	6	3.94	4.28	5.15	4.74	1.12
Travis	453	17	94	10	6	1.95	0.85	5.08	5.06	2.18
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

1-Butene Data Summary

1992 - 1995

MDL = 2.56

24-Hour ESL = 2,960.00

Annual ESL = 740.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.90†	0.83†	1.36†	1.30†	0.28
San Antonio			95	4	0	0.59†	0.61†	0.74†	0.62†	0.13
Brazoria	39	1003	94	14	0	0.48†	0.42†	1.20†	1.00†	0.36
Clute			95	62	0	0.45†	0.42†	2.11†	1.22†	0.35
Cameron	61	6	94	14	0	0.74†	0.52†	2.44†	2.11†	0.75
Brownsville			95	57	0	0.35†	0.27†	1.08†	1.02†	0.27
Dallas	113	70	94	14	1	0.83†	0.53†	3.97	2.06†	1.05
Dallas			95	57	2	0.59†	0.36†	2.70	2.59	0.59
Ector	135	3	94	14	2	1.40†	0.98†	3.62	3.24	1.14
Odessa			95	59	2	0.95†	0.70†	4.90	3.88	0.87
Ellis	139	7	94	12	0	0.41†	0.42†	0.94†	0.66†	0.26
Midlothian			95	58	0	0.20†	0.17†	0.88†	0.70†	0.19
El Paso	141	47	94	14	4	6.94	1.01†	41.96	38.41	14.19
El Paso			95	55	3	1.21†	0.72†	15.18	4.77	2.10
Galveston	167	53	94	11	2	1.14†	0.65†	4.03	2.57	1.21
Texas City			95	47	5	1.22†	0.96†	3.60	3.18	0.96
Harris	201	24	95	7	0	1.15†	1.24†	1.72†	1.59†	0.47
Aldine										
Harris	201	26	94	15	1	1.04†	1.03†	2.75	1.97†	0.78
Channelview			95	55	5	1.14†	0.95†	4.25	3.91	0.87
Harris	201	64	94	14	6	2.84	1.44†	11.90	5.41	3.30
Houston, Allendale			95	53	15	2.55†	1.20†	18.99	11.69	3.38
Harris	201	803	94	14	5	1.85†	1.22†	5.26	5.26	1.85
Houston, Haden			95	57	11	2.57	1.47†	16.29	12.83	3.39
Harris	201	1035	94	14	5	1.99†	2.05†	5.66	3.30	1.55
Houston, Clinton			95	60	10	1.65†	1.57†	3.97	3.56	0.85
Jefferson	245	9	94	15	1	1.04†	0.98†	2.75	1.69†	0.66
Beaumont			95	61	3	5.16	0.74†	262.80	3.52	33.54
Jefferson	245	11	94	14	2	1.05†	0.77†	2.90	2.76	1.04
Port Arthur			95	58	11	1.70†	1.08†	10.78	10.19	1.89
Jefferson	245	14	94	14	4	2.60	1.18†	13.48	4.77	3.52
Groves			95	53	5	1.08†	0.72†	5.66	4.43	1.13
Jefferson	245	17	94	13	0	0.74†	0.80†	1.49†	1.27†	0.46
Nueces	355	20	94	14	7	2.47†	2.48†	7.95	5.01	2.41
Corpus Christi			95	53	9	2.09†	0.94†	21.44	9.78	3.42
Orange	361	1001	94	15	0	0.71†	0.65†	2.00†	1.25†	0.51
West Orange			95	21	1	1.21†	0.85†	7.46	1.58†	1.49
Smith	423	5	94	15	0	0.45†	0.25†	2.14†	1.26†	0.57
Winona			95	18	0	0.38†	0.27†	1.70†	1.10†	0.42
Tarrant	439	3002	94	1	0	<.01		<.01		
Grapevine			95	13	0	0.52†	0.36†	1.84†	1.00†	0.44
Tarrant	439	3004	94	3	0	<.01	<.01	<.01	<.01	0.00
Irving, DFW Airport			95	6	0	0.47†	0.47†	0.64†	0.54†	0.12
Travis	453	17	94	10	1	0.97†	0.78†	3.47	2.12†	1.09
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

c-2-Butene Data Summary
1992 - 1995

MDL = 0.31

24-Hour ESL = 2,960.00

Annual ESL = 740.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.03†	<.01	0.17†	0.06†	0.06
San Antonio			95	4	0	0.02†	0.01†	0.06†	0.02†	0.03
Brazoria	39	1003	94	14	0	<.01	<.01	<.01	<.01	0.00
Clute			95	62	0	0.01†	<.01	0.04†	0.03†	0.01
Cameron	61	6	94	14	4	0.20	<.01	1.36	0.56	0.38
Brownsville			95	57	0	0.03†	<.01	0.23†	0.20†	0.06
Dallas	113	70	94	14	2	0.07†	<.01	0.36	0.30	0.12
Dallas			95	57	0	0.03†	<.01	0.25†	0.23†	0.06
Ector	135	3	94	14	8	0.23	0.18	0.93	0.45	0.26
Odessa			95	59	10	0.17†	0.01†	1.12	1.00	0.25
Ellis	139	7	94	12	0	<.01	<.01	<.01	<.01	0.00
Midlothian			95	58	0	0.01†	<.01	0.03†	0.01†	0.00
El Paso	141	47	94	14	6	0.57	0.17†	3.68	2.02	1.04
El Paso			95	55	11	0.16†	0.10†	0.86	0.72	0.20
Galveston	167	53	94	11	1	0.08†	<.01	0.62	0.14†	0.18
Texas City			95	47	14	0.18†	<.01	0.87	0.77	0.26
Harris	201	24	95	7	0	0.05†	0.05†	0.10†	0.08†	0.04
Aldine										
Harris	201	26	94	15	6	0.10†	<.01	0.33	0.26	0.12
Channelview			95	55	3	0.05†	<.01	0.44	0.34	0.09
Harris	201	64	94	14	6	0.53	0.04†	2.43	1.69	0.78
Houston, Allendale			95	53	16	0.58	<.01	4.21	3.52	1.02
Harris	201	803	94	14	2	0.05†	<.01	0.51	0.19	0.14
Houston, Haden			95	57	7	0.12†	<.01	0.82	0.71	0.19
Harris	201	1035	94	14	5	0.22	<.01	1.05	0.82	0.34
Houston, Clinton			95	60	22	0.26†	0.16†	1.14	0.98	0.29
Jefferson	245	9	94	15	2	0.07†	<.01	0.56	0.24	0.15
Beaumont			95	61	3	0.05†	<.01	0.70	0.48	0.12
Jefferson	245	11	94	14	4	0.18†	<.01	1.27	0.57	0.35
Port Arthur			95	58	18	0.27†	0.13†	1.75	1.63	0.39
Jefferson	245	14	94	14	6	0.63	<.01	5.82	1.18	1.54
Groves			95	53	17	0.31	0.20†	2.66	2.53	0.51
Jefferson	245	17	94	13	5	0.43	<.01	2.75	0.91	0.78
Nueces	355	20	94	14	2	0.08†	<.01	0.36	0.27	0.11
Corpus Christi			95	53	7	0.21†	<.01	3.60	1.30	0.54
Orange	361	1001	94	15	3	0.10†	<.01	0.93	0.27	0.24
West Orange			95	21	7	0.29†	0.18†	2.32	0.63	0.51
Smith	423	5	94	15	0	<.01	<.01	<.01	<.01	0.00
Winona			95	18	0	0.01†	<.01	0.04†	0.03†	0.01
Tarrant	439	3002	94	1	0	<.01		<.01		
Grapevine			95	13	0	0.02†	<.01	0.15†	0.02†	0.04
Tarrant	439	3004	94	3	0	<.01	<.01	<.01	<.01	0.00
Irving, DFW Airport			95	6	0	0.01†	<.01	0.05†	<.01	0.02
Travis	453	17	94	10	1	0.06†	<.01	0.26	0.14†	0.09
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

t-2-Butene Data Summary
1992 - 1995

MDL = 0.20

24-Hour ESL = 2,960.00

Annual ESL = 740.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	2	0.14†	0.11†	0.28	0.27	0.09
San Antonio			95	4	0	0.04†	0.01†	0.14†	0.02†	0.07
Brazoria	39	1003	94	14	2	0.24	0.05†	1.66	1.19	0.51
Clute			95	62	2	0.03†	<.01	0.27	0.24	0.05
Cameron	61	6	94	14	7	0.31	0.17†	1.04	0.77	0.33
Brownsville			95	57	8	0.07†	<.01	0.78	0.41	0.13
Dallas	113	70	94	14	5	0.47	0.11†	3.35	1.08	0.89
Dallas			95	57	6	0.04†	<.01	0.30	0.28	0.08
Ector	135	3	94	14	11	1.87	0.29	14.77	7.65	4.20
Odessa			95	59	24	0.23	0.15†	1.12	0.99	0.27
Ellis	139	7	94	12	2	0.13†	<.01	0.88	0.55	0.28
Midlothian			95	58	1	0.02†	<.01	0.61	0.15†	0.08
El Paso	141	47	94	14	10	1.44	0.37	9.91	4.68	2.73
El Paso			95	55	23	0.24	0.17†	1.11	0.90	0.23
Galveston	167	53	94	11	4	0.41	0.19†	2.78	0.61	0.81
Texas City			95	47	19	0.26	0.10†	1.25	1.00	0.33
Harris	201	24	95	7	0	0.08†	0.09†	0.18†	0.11†	0.06
Aldine										
Harris	201	26	94	15	9	0.43	0.23	2.34	1.71	0.67
Channelview			95	55	6	0.07†	<.01	0.54	0.43	0.11
Harris	201	64	94	14	9	1.49	0.95	7.50	4.38	2.11
Houston, Allendale			95	53	21	0.66	0.10†	4.76	3.73	1.10
Harris	201	803	94	14	7	0.77	0.21	3.67	3.37	1.24
Houston, Haden			95	57	19	0.39	0.11†	11.47	1.16	1.52
Harris	201	1035	94	14	7	0.92	0.29	8.42	1.15	2.19
Houston, Clinton			95	60	36	0.33	0.29	1.28	1.11	0.29
Jefferson	245	9	94	15	5	0.30	0.12†	2.84	0.27	0.71
Beaumont			95	61	8	0.07†	<.01	0.83	0.49	0.15
Jefferson	245	11	94	14	7	0.39	0.21	1.96	1.10	0.55
Port Arthur			95	58	28	0.33	0.18†	2.41	2.05	0.49
Jefferson	245	14	94	14	8	0.68	0.25	5.02	1.24	1.32
Groves			95	53	28	0.36	0.23	3.52	2.44	0.59
Jefferson	245	17	94	13	8	1.85	0.87	10.83	3.14	2.93
Nueces	355	20	94	14	7	1.03	0.17†	9.91	2.23	2.62
Corpus Christi			95	53	16	0.24	0.11†	3.46	1.34	0.53
Orange	361	1001	94	15	7	0.48	0.08†	3.93	0.96	1.00
West Orange			95	21	14	0.39	0.28	2.34	0.73	0.49
Smith	423	5	94	15	3	0.28	<.01	1.99	1.63	0.64
Winona			95	18	0	0.02†	<.01	0.10†	0.07†	0.03
Tarrant	439	3002	94	1	1	1.47		1.47		
Grapevine			95	13	0	0.02†	<.01	0.15†	0.04†	0.04
Tarrant	439	3004	94	3	3	1.07	0.97	1.40	0.97	0.30
Irving, DFW Airport			95	6	0	0.02†	<.01	0.06†	0.01†	0.02
Travis	453	17	94	10	6	0.93	0.29	2.62	2.47	1.11
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

Carbon Tetrachloride Data Summary
1992 - 1995

MDL = 0.45

24-Hour ESL = 8.00

Annual ESL = 2.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	0	0.09†	0.10†	0.18†	0.16†	0.05
San Antonio			95	4	0	0.07†	0.08†	0.09†	0.08†	0.02
Brazoria	39	1003	92	0	0					
Clute			93	15	0	0.11†	0.11†	0.22†	0.14†	0.04
			94	21	1	0.18†	0.21†	0.51	0.26†	0.11
			95	52	0	0.10†	0.11†	0.30†	0.22†	0.05
Cameron	61	6	93	19	1	0.16†	0.11†	1.07	0.26†	0.22
Brownsville			94	59	0	0.11†	0.11†	0.23†	0.22†	0.06
			95	57	0	0.08†	0.10†	0.23†	0.17†	0.05
Dallas	113	70	93	27	0	0.11†	0.10†	0.27†	0.20†	0.04
Dallas			94	58	0	0.11†	0.11†	0.23†	0.22†	0.07
			95	20	0	0.08†	0.10†	0.15†	0.11†	0.04
Ector	135	3	93	13	1	0.15†	0.10†	0.68	0.11†	0.16
Odessa			94	23	1	0.18†	0.17†	1.17	0.32†	0.23
			95	18	0	0.04†	<.01	0.12†	0.11†	0.05
Ellis	139	7	93	20	0	0.10†	0.10†	0.11†	0.11†	0.02
Midlothian			94	32	3	0.30†	0.16†	3.40	1.25	0.61
			95	58	0	0.07†	0.09†	0.21†	0.15†	0.05
El Paso	141	47	93	33	0	0.09†	0.11†	0.16†	0.15†	0.04
El Paso			94	58	1	0.09†	0.05†	1.20	0.23†	0.17
			95	55	0	0.06†	0.09†	0.19†	0.14†	0.05
Galveston	167	53	92	9	0	0.20†	0.15†	0.44†	0.31†	0.15
Texas City			93	51	0	0.09†	0.10†	0.26†	0.15†	0.05
			94	51	0	0.10†	0.11†	0.22†	0.21†	0.07
			95	46	0	0.08†	0.10†	0.21†	0.17†	0.05
Harris	201	24	95	7	0	0.07†	0.07†	0.11†	0.10†	0.03
Aldine										
Harris	201	26	92	6	0	0.09†	0.03†	0.39†	0.06†	0.15
Channelview			93	49	0	0.10†	0.10†	0.25†	0.23†	0.06
			94	59	0	0.16†	0.15†	0.41†	0.36†	0.08
			95	55	1	0.11†	0.11†	0.58	0.33†	0.09
Harris	201	64	93	21	0	0.11†	0.10†	0.40†	0.35†	0.11
Houston, Allendale			94	54	1	0.14†	0.14†	0.49	0.32†	0.10
			95	53	0	0.08†	0.09†	0.25†	0.22†	0.07
Harris	201	803	92	1	0	<.01		<.01		
Houston, Haden			93	56	8	0.32†	0.15†	4.90	1.54	0.68
			94	58	15	0.39†	0.25†	1.97	1.90	0.43
			95	57	13	0.48	0.15†	5.03	3.87	0.91
Harris	201	1035	92	0	0					
Houston, Clinton			93	23	2	0.22†	0.12†	1.89	0.58	0.38
			94	41	8	0.25†	0.16†	1.65	0.85	0.35
			95	18	0	0.08†	0.10†	0.17†	0.15†	0.06

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Carbon Tetrachloride Data Summary (continued)
1992 - 1995

MDL = 0.45

24-Hour ESL = 8.00

Annual ESL = 2.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Jefferson Beaumont	245 9	92	2	0	0.02†	0.02†	0.04†	<.01	0.02
		93	38	0	0.12†	0.12†	0.23†	0.21†	0.05
		94	44	0	0.15†	0.16†	0.30†	0.26†	0.07
		95	53	0	0.09†	0.10†	0.21†	0.17†	0.05
Jefferson Port Arthur	245 11	92	7	2	0.51	0.14†	1.72	1.35	0.72
		93	46	0	0.09†	0.10†	0.19†	0.18†	0.05
		94	37	0	0.14†	0.13†	0.30†	0.24†	0.07
		95	57	0	0.07†	0.09†	0.15†	0.15†	0.05
Jefferson Groves	245 14	93	12	0	0.08†	0.11†	0.12†	0.12†	0.05
		94	21	0	0.13†	0.11†	0.43†	0.28†	0.13
		95	14	0	0.05†	<.01	0.11†	0.10†	0.05
Jefferson Port Neches	245 17	94	23	0	0.12†	0.11†	0.35†	0.16†	0.06
Nueces Corpus Christi	355 20	93	20	0	0.05†	<.01	0.18†	0.15†	0.06
		94	52	0	0.09†	0.11†	0.29†	0.22†	0.08
		95	53	0	0.07†	0.09†	0.22†	0.22†	0.06
Orange West Orange	361 1001	94	27	0	0.10†	0.10†	0.27†	0.17†	0.06
		95	20	0	0.06†	0.09†	0.15†	0.12†	0.05
Smith Winona	423 5	94	32	1	0.13†	0.12†	0.45	0.37†	0.08
		95	18	0	0.06†	0.07†	0.12†	0.11†	0.04
Tarrant Grapevine	439 3002	94	15	0	0.10†	0.11†	0.14†	0.14†	0.02
		95	13	0	0.06†	0.08†	0.10†	0.09†	0.04
Tarrant Irving, DFW Airport	439 3004	94	9	0	0.11†	0.10†	0.24†	0.14†	0.06
		95	6	0	0.08†	0.09†	0.10†	0.09†	0.03
Travis Austin	453 17	94	21	0	0.10†	0.11†	0.15†	0.14†	0.04

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Chlorobenzene Data Summary

1992 - 1995

MDL = 0.74

24-Hour ESL = 40.00

Annual ESL = 10.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	0	0.03†	0.02†	0.10†	0.09†	0.03
San Antonio			95	4	0	0.01†	0.01†	0.02†	0.01†	0.01
Brazoria	39	1003	92	7	0	<.01	<.01	<.01	<.01	0.00
Clute			93	46	2	0.12†	0.02†	1.81	0.92	0.31
			94	53	0	0.03†	0.02†	0.14†	0.09†	0.03
			95	62	0	0.01†	<.01	0.17†	0.07†	0.02
Cameron	61	6	93	19	0	0.17†	0.14†	0.48†	0.38†	0.13
Brownsville			94	59	0	0.06†	0.03†	0.56†	0.30†	0.08
			95	57	0	0.02†	0.01†	0.25†	0.06†	0.03
Dallas	113	70	93	49	0	0.02†	0.01†	0.11†	0.09†	0.02
Dallas			94	58	0	0.03†	0.01†	0.13†	0.11†	0.03
			95	57	0	0.03†	0.01†	0.25†	0.24†	0.05
Ector	135	3	93	52	0	0.03†	0.01†	0.22†	0.13†	0.04
Odessa			94	59	0	0.05†	0.03†	0.35†	0.27†	0.07
			95	59	0	0.02†	0.01†	0.16†	0.15†	0.03
Ellis	139	7	93	55	0	0.04†	0.01†	0.65†	0.20†	0.09
Midlothian			94	51	2	0.06†	0.01†	0.77	0.77	0.16
			95	58	0	0.06†	<.01	0.59†	0.56†	0.13
El Paso	141	47	93	33	0	0.04†	0.01†	0.73†	0.09†	0.13
El Paso			94	58	0	0.02†	0.01†	0.22†	0.08†	0.03
			95	55	0	0.01†	<.01	0.02†	0.02†	0.00
Galveston	167	53	92	9	1	0.24†	0.01†	1.01	0.64†	0.37
Texas City			93	51	0	0.05†	0.02†	0.40†	0.24†	0.07
			94	51	0	0.04†	0.02†	0.35†	0.09†	0.05
			95	47	0	0.03†	0.01†	0.25†	0.19†	0.05
Harris	201	24	95	7	0	0.01†	0.01†	0.02†	0.01†	0.01
Aldine										
Harris	201	26	92	7	1	0.16†	<.01	0.88	0.22†	0.33
Channelview			93	49	4	0.26†	0.02†	3.98	2.61	0.79
			94	59	0	0.05†	0.03†	0.37†	0.32†	0.07
			95	55	1	0.13†	0.01†	0.88	0.65†	0.21
Harris	201	64	93	43	0	0.04†	0.02†	0.42†	0.10†	0.06
Houston, Allendale			94	54	8	0.39†	0.06†	5.93	3.88	1.05
			95	53	0	0.02†	<.01	0.28†	0.18†	0.05
Harris	201	803	92	1	0	<.01		<.01		
Houston, Haden			93	56	5	0.31†	0.03†	5.32	3.15	0.88
			94	58	8	0.31†	0.08†	3.44	2.81	0.62
			95	57	6	0.29†	0.07†	3.69	1.74	0.61
Harris	201	1035	92	8	1	0.22†	<.01	1.70	<.01	0.60
Houston, Clinton			93	50	0	0.08†	0.01†	0.51†	0.41†	0.13
			94	58	0	0.05†	0.03†	0.52†	0.28†	0.08
			95	60	0	0.08†	0.03†	0.53†	0.42†	0.11

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Chlorobenzene Data Summary (continued)

1992 - 1995

MDL = 0.74

24-Hour ESL = 40.00

Annual ESL = 10.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Jefferson Beaumont	245 9	92	7	0	0.01†	<.01	0.02†	<.01	0.01
		93	56	0	0.09†	0.03†	0.44†	0.41†	0.12
		94	59	0	0.03†	0.02†	0.15†	0.12†	0.03
		95	61	0	0.02†	0.01†	0.24†	0.23†	0.05
Jefferson Port Arthur	245 11	92	7	0	0.01†	<.01	0.03†	<.01	0.01
		93	60	5	0.20†	0.02†	2.11	1.69	0.42
		94	57	1	0.19†	0.19†	0.85	0.70†	0.20
		95	58	0	0.03†	<.01	0.24†	0.19†	0.05
Jefferson Groves	245 14	93	18	0	0.05†	0.02†	0.61†	0.08†	0.14
		94	58	0	0.03†	0.01†	0.11†	0.10†	0.03
		95	53	0	0.01†	0.01†	0.19†	0.06†	0.03
Jefferson Port Neches	245 17	94	23	0	0.03†	0.02†	0.19†	0.12†	0.04
Nueces Corpus Christi	355 20	93	55	1	0.04†	0.01†	0.78	0.17†	0.11
		94	52	0	0.03†	0.01†	0.39†	0.33†	0.07
		95	53	1	0.05†	<.01	1.64	0.25†	0.23
Orange West Orange	361 1001	94	27	0	0.04†	0.02†	0.20†	0.14†	0.04
		95	21	1	0.06†	0.01†	0.80	0.14†	0.17
Smith Winona	423 5	94	32	1	0.08†	0.01†	1.05	0.72†	0.22
		95	18	0	0.01†	<.01	0.04†	0.01†	0.01
Tarrant Grapevine	439 3002	94	15	0	0.03†	0.02†	0.09†	0.05†	0.02
		95	13	0	<.01	<.01	<.01	<.01	0.00
Tarrant Irving, DFW Airport	439 3004	94	9	0	0.02†	0.02†	0.04†	0.03†	0.01
		95	6	0	<.01	<.01	<.01	<.01	0.00
Travis Austin	453 17	94	21	0	0.03†	0.01†	0.29†	0.03†	0.06

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Chloroform Data Summary

1992 - 1995

MDL = 0.64

24-Hour ESL = 8.00

Annual ESL = 2.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	0	0.02†	0.02†	0.05†	0.04†	0.01
San Antonio			95	4	0	0.01†	0.01†	0.02†	0.01†	0.01
Brazoria	39	1003	92	7	0	0.02†	<.01	0.14†	<.01	0.05
Clute			93	46	0	0.04†	0.03†	0.21†	0.19†	0.04
			94	53	0	0.03†	0.02†	0.11†	0.10†	0.02
			95	62	0	0.02†	0.02†	0.08†	0.07†	0.02
Cameron	61	6	93	19	0	0.03†	0.02†	0.07†	0.04†	0.01
Brownsville			94	59	0	0.02†	0.02†	0.09†	0.08†	0.02
			95	57	0	0.02†	0.01†	0.17†	0.05†	0.02
Dallas	113	70	93	49	0	0.02†	0.02†	0.06†	0.05†	0.01
Dallas			94	58	0	0.02†	0.02†	0.09†	0.06†	0.01
			95	57	0	0.02†	0.02†	0.08†	0.05†	0.01
Ector	135	3	93	52	0	0.02†	0.02†	0.27†	0.03†	0.04
Odessa			94	59	0	0.02†	0.02†	0.09†	0.05†	0.01
			95	59	0	0.01†	0.01†	0.02†	0.02†	0.01
Ellis	139	7	93	55	0	0.02†	0.02†	0.05†	0.04†	0.01
Midlothian			94	51	0	0.02†	0.02†	0.09†	0.08†	0.02
			95	58	0	0.02†	0.01†	0.18†	0.03†	0.02
El Paso	141	47	93	33	0	0.04†	0.03†	0.10†	0.07†	0.02
El Paso			94	58	0	0.03†	0.02†	0.08†	0.08†	0.02
			95	55	0	0.02†	0.02†	0.07†	0.05†	0.01
Galveston	167	53	92	9	0	0.04†	<.01	0.31†	0.03†	0.10
Texas City			93	51	0	0.04†	0.03†	0.29†	0.15†	0.05
			94	51	0	0.05†	0.04†	0.16†	0.15†	0.04
			95	47	0	0.06†	0.03†	0.58†	0.29†	0.10
Harris	201	24	95	7	0	0.03†	0.02†	0.11†	0.04†	0.04
Aldine										
Harris	201	26	92	7	0	0.09†	<.01	0.60†	<.01	0.22
Channelview			93	49	0	0.04†	0.04†	0.11†	0.10†	0.03
			94	59	0	0.05†	0.04†	0.18†	0.16†	0.04
			95	55	0	0.04†	0.03†	0.24†	0.16†	0.04
Harris	201	64	93	43	0	0.07†	0.06†	0.20†	0.18†	0.05
Houston, Allendale			94	54	0	0.06†	0.05†	0.26†	0.19†	0.05
			95	53	0	0.05†	0.04†	0.30†	0.17†	0.06
Harris	201	803	92	1	0	<.01	<.01			
Houston, Haden			93	56	2	0.28†	0.05†	8.03 **	4.34	1.20
			94	58	1	0.10†	0.07†	0.81	0.25†	0.12
			95	57	0	0.08†	0.06†	0.37†	0.36†	0.08
Harris	201	1035	92	8	0	0.06†	<.01	0.32†	0.10†	0.11
Houston, Clinton			93	50	0	0.05†	0.04†	0.15†	0.14†	0.04
			94	58	1	0.06†	0.04†	0.69	0.17†	0.09
			95	60	0	0.07†	0.04†	0.33†	0.21†	0.07

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Chloroform Data Summary (continued)

1992 - 1995

MDL = 0.64

24-Hour ESL = 8.00

Annual ESL = 2.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Jefferson Beaumont	245 9	92	7	0	<.01	<.01	<.01	<.01	0.00
		93	56	2	0.09†	0.04†	2.20	0.64	0.30
		94	59	0	0.04†	0.03†	0.11†	0.10†	0.02
		95	61	0	0.03†	0.03†	0.19†	0.08†	0.03
Jefferson Port Arthur	245 11	92	7	0	0.01†	<.01	0.02†	<.01	0.01
		93	60	0	0.03†	0.03†	0.10†	0.10†	0.02
		94	57	0	0.03†	0.03†	0.09†	0.08†	0.02
		95	58	0	0.02†	0.02†	0.06†	0.06†	0.02
Jefferson Groves	245 14	93	18	0	0.05†	0.04†	0.10†	0.08†	0.02
		94	58	0	0.04†	0.03†	0.12†	0.09†	0.02
		95	53	0	0.03†	0.03†	0.09†	0.09†	0.03
Jefferson Port Neches	245 17	94	23	0	0.04†	0.04†	0.15†	0.07†	0.03
Nueces Corpus Christi	355 20	93	55	0	0.02†	0.02†	0.07†	0.06†	0.02
		94	52	0	0.03†	0.02†	0.12†	0.09†	0.02
		95	53	0	0.02†	0.02†	0.17†	0.16†	0.03
Orange West Orange	361 1001	94	27	0	0.04†	0.03†	0.12†	0.11†	0.03
		95	21	0	0.03†	0.02†	0.11†	0.09†	0.03
Smith Winona	423 5	94	32	0	0.04†	0.02†	0.29†	0.13†	0.05
		95	18	0	0.01†	0.01†	0.05†	0.02†	0.01
Tarrant Grapevine	439 3002	94	15	0	0.02†	0.02†	0.04†	0.04†	0.01
		95	13	0	0.01†	<.01	0.03†	0.02†	0.01
Tarrant Irving, DFW Airport	439 3004	94	9	0	0.02†	0.02†	0.03†	0.03†	0.01
		95	6	0	0.01†	0.01†	0.02†	0.02†	0.01
Travis Austin	453 17	94	21	0	0.03†	0.02†	0.06†	0.06†	0.02

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

2-Chloropentane Data Summary

1992 - 1995

MDL = 0.50

24-Hour ESL = 76.00

Annual ESL = 19.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	12	0	<.01	<.01	<.01	<.01	0.00
San Antonio			95	4	0	<.01	<.01	<.01	<.01	0.00
Brazoria	39	1003	93	8	2	0.28†	0.32†	0.69	0.53	0.26
Clute			94	39	1	0.07†	<.01	1.87	0.38†	0.30
			95	48	4	0.08†	<.01	1.43	0.77	0.26
Cameron	61	6	93	14	7	0.50†	0.48†	1.35	0.97	0.38
Brownsville			94	45	0	<.01	<.01	<.01	<.01	0.00
			95	43	1	0.03†	<.01	1.02	0.01†	0.15
Dallas	113	70	93	15	4	0.36†	0.32†	0.96	0.77	0.27
Dallas			94	44	0	<.01	<.01	<.01	<.01	0.00
			95	43	0	0.01†	<.01	0.31†	0.12†	0.05
Ector	135	3	93	15	10	0.90	1.02	2.12	1.80	0.64
Odessa			94	45	0	<.01	<.01	<.01	<.01	0.00
			95	44	4	0.09†	<.01	1.41	1.02	0.29
Ellis	139	7	93	15	0	0.19†	0.16†	0.40†	0.33†	0.13
Midlothian			94	39	0	<.01	<.01	<.01	<.01	0.00
			95	43	1	0.03†	<.01	0.80	0.36†	0.13
El Paso	141	47	93	11	8	1.36	1.16	3.27	2.84	1.12
El Paso			94	44	2	0.11†	<.01	2.84	1.85	0.50
			95	42	4	0.15†	<.01	2.12	1.54	0.46
Galveston	167	53	93	14	7	0.84	0.44†	5.19	1.83	1.34
Texas City			94	40	0	<.01	<.01	<.01	<.01	0.00
			95	35	1	0.24†	<.01	8.08	<.01	1.36
Harris	201	24	95	7	0	0.01†	<.01	0.01†	<.01	0.00
Aldine										
Harris	201	26	93	8	2	0.39†	0.29†	1.55	0.52	0.51
Channelview			94	44	1	0.02†	<.01	0.77	<.01	0.12
			95	42	2	0.07†	<.01	1.10	0.59	0.21
Harris	201	64	93	15	10	0.97	0.94	2.58	2.28	0.86
Houston, Allendale			94	40	0	<.01	<.01	<.01	<.01	0.00
			95	41	2	0.11†	<.01	3.48	0.66	0.55
Harris	201	803	93	15	10	0.76	0.77	1.89	1.49	0.59
Houston, Haden			94	44	1	0.05†	<.01	1.55	0.38†	0.24
			95	43	5	0.10†	<.01	0.85	0.81	0.24
Harris	201	1035	93	13	8	0.71	0.57	2.37	1.48	0.70
Houston, Clinton			94	44	3	0.16†	<.01	2.83	2.22	0.58
			95	46	6	0.17†	<.01	2.01	1.53	0.46
Jefferson	245	9	93	13	8	0.88	0.76	2.34	2.19	0.84
Beaumont			94	44	0	<.01	<.01	<.01	<.01	0.00
			95	46	4	0.13†	<.01	1.73	1.57	0.40
Jefferson	245	11	93	15	8	0.51	0.50	1.66	1.37	0.52
Port Arthur			94	43	0	<.01	<.01	<.01	<.01	0.00
			95	43	4	0.13†	<.01	1.87	1.66	0.40
Jefferson	245	14	93	15	10	1.87	0.86	6.44	5.87	2.12
Groves			94	44	0	<.01	<.01	<.01	<.01	0.00
			95	40	5	0.17†	<.01	3.27	1.09	0.56
Jefferson	245	17	94	10	0	<.01	<.01	<.01	<.01	0.00
Port Neches										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

2-Chloropentane Data Summary (continued)
1992 - 1995

MDL = 0.50

24-Hour ESL = 76.00

Annual ESL = 19.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Nueces Corpus Christi	355	20	93	15	9	3.86	2.11	12.04	11.43
		94	38	1	0.08†	<.01	3.00	<.01	0.49
		95	38	3	0.09†	<.01	0.80	0.67	0.21
Orange West Orange	361	1001	94	12	0	<.01	<.01	<.01	0.00
		95	7	0	<.01	<.01	<.01	<.01	0.00
Smith Winona	423	5	94	17	0	<.01	<.01	<.01	0.00
		95	14	0	<.01	<.01	<.01	<.01	0.00
Tarrant Grapevine	439	3002	94	14	0	<.01	<.01	<.01	0.00
		95	13	0	<.01	<.01	<.01	<.01	0.00
Tarrant Irving, DFW Airport	439	3004	94	6	0	<.01	<.01	<.01	0.00
		95	6	0	<.01	<.01	<.01	<.01	0.00
Travis Austin	453	17	94	11	0	<.01	<.01	<.01	0.00

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Cumene Data Summary

1992 - 1995

MDL = 0.44

24-Hour ESL = 200.00

Annual ESL = 50.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.03†	0.03†	0.06†	0.04†	0.02
San Antonio			95	4	0	0.01†	0.01†	0.01†	0.01†	0.00
Brazoria	39	1003	94	14	0	0.04†	0.03†	0.09†	0.06†	0.02
Clute			95	62	0	0.01†	<.01	0.12†	0.06†	0.02
Cameron	61	6	94	14	0	0.02†	<.01	0.09†	0.08†	0.03
Brownsville			95	57	0	0.01†	<.01	0.11†	0.07†	0.02
Dallas	113	70	94	14	0	0.02†	0.02†	0.08†	0.07†	0.02
Dallas			95	57	0	0.01†	<.01	0.04†	0.03†	0.01
Ector	135	3	94	14	0	0.03†	0.02†	0.06†	0.06†	0.02
Odessa			95	59	0	0.01†	<.01	0.07†	0.05†	0.01
Ellis	139	7	94	12	0	0.02†	0.02†	0.06†	0.04†	0.02
Midlothian			95	58	0	0.01†	<.01	0.04†	0.04†	0.01
El Paso	141	47	94	14	1	0.13†	0.04†	1.21	0.10†	0.31
El Paso			95	55	0	0.02†	0.02†	0.10†	0.10†	0.02
Galveston	167	53	94	11	0	0.06†	0.06†	0.15†	0.07†	0.04
Texas City			95	47	0	0.03†	0.02†	0.12†	0.11†	0.03
Harris	201	24	95	7	0	0.01†	0.01†	0.01†	0.01†	0.00
Aldine										
Harris	201	26	94	15	0	0.02†	<.01	0.16†	0.11†	0.05
Channelview			95	55	0	0.04†	<.01	0.40†	0.25†	0.07
Harris	201	64	94	14	1	0.12†	<.01	1.04	0.28†	0.28
Houston, Allendale			95	53	0	0.02†	0.01†	0.14†	0.09†	0.03
Harris	201	803	94	14	0	0.04†	<.01	0.18†	0.16†	0.06
Houston, Haden			95	57	2	0.10†	0.02†	1.91	0.81	0.27
Harris	201	1035	94	14	0	0.03†	<.01	0.20†	0.13†	0.06
Houston, Clinton			95	60	0	0.02†	<.01	0.07†	0.06†	0.02
Jefferson	245	9	94	15	0	<.01	<.01	<.01	<.01	0.00
Beaumont			95	61	0	0.02†	<.01	0.09†	0.08†	0.02
Jefferson	245	11	94	14	0	0.01†	<.01	0.07†	0.03†	0.02
Port Arthur			95	58	1	0.03†	<.01	0.65	0.28†	0.09
Jefferson	245	14	94	14	0	0.02†	<.01	0.06†	0.04†	0.02
Groves			95	53	0	0.02†	0.01†	0.26†	0.05†	0.04
Jefferson	245	17	94	13	0	0.02†	<.01	0.10†	0.06†	0.03
Nueces	355	20	94	14	0	0.05†	0.03†	0.24†	0.11†	0.06
Corpus Christi			95	53	1	0.04†	0.02†	0.53	0.23†	0.08
Orange	361	1001	94	15	0	<.01	<.01	<.01	<.01	0.00
West Orange			95	21	0	0.01†	<.01	0.04†	0.04†	0.01
Smith	423	5	94	15	0	<.01	<.01	<.01	<.01	0.00
Winona			95	18	0	0.01†	<.01	0.03†	0.03†	0.01
Tarrant	439	3002	94	1	0	0.03†		0.03†	<.01	0.00
Grapevine			95	13	0	0.01†	<.01	0.01†	<.01	0.00
Tarrant	439	3004	94	3	0	0.03†	0.04†	0.05†	0.04†	0.02
Irving, DFW Airport			95	6	0	<.01	<.01	<.01	<.01	0.00
Travis	453	17	94	10	0	0.08†	0.06†	0.25†	0.13†	0.07
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

Cyclohexane Data Summary

1992 - 1995

MDL = 1.06

24-Hour ESL = 400.00

Annual ESL = 100.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.06†	<.01	0.15†	0.14†	0.07
San Antonio			95	4	0	0.10†	0.11†	0.13†	0.12†	0.03
Brazoria	39	1003	94	14	2	0.56†	0.22†	3.52	1.26	0.93
Clute			95	62	15	1.47	0.17†	12.24	10.44	2.89
Cameron	61	6	94	14	0	0.06†	<.01	0.17†	0.14†	0.06
Brownsville			95	57	0	0.06†	<.01	0.71†	0.39†	0.12
Dallas	113	70	94	14	0	0.08†	0.07†	0.31†	0.24†	0.09
Dallas			95	57	0	0.06†	0.03†	0.30†	0.25†	0.07
Ector	135	3	94	14	0	0.33†	0.29†	0.70†	0.58†	0.20
Odessa			95	59	0	0.19†	0.13†	1.00†	0.95†	0.22
Ellis	139	7	94	12	0	0.14†	0.06†	0.83†	0.34†	0.24
Midlothian			95	58	0	0.04†	<.01	0.65†	0.31†	0.10
El Paso	141	47	94	14	4	0.97†	0.31†	6.72	1.78	1.76
El Paso			95	55	9	0.59†	0.35†	2.60	2.57	0.61
Galveston	167	53	94	11	0	0.22†	0.15†	0.51†	0.46†	0.18
Texas City			95	47	1	0.27†	0.19†	1.10	0.79†	0.29
Harris	201	24	95	7	0	0.11†	0.12†	0.18†	0.17†	0.07
Aldine										
Harris	201	26	94	15	0	0.15†	0.09†	0.59†	0.32†	0.16
Channelview			95	55	4	0.46†	0.19†	8.21	2.23	1.14
Harris	201	64	94	14	1	0.40†	0.22†	2.43	0.54†	0.61
Houston, Allendale			95	53	0	0.18†	0.10†	0.96†	0.74†	0.23
Harris	201	803	94	14	1	0.31†	0.26†	1.18	0.60†	0.32
Houston, Haden			95	57	8	0.86†	0.32†	23.94	1.81	3.15
Harris	201	1035	94	14	0	0.46†	0.39†	1.05†	0.90†	0.32
Houston, Clinton			95	60	1	0.28†	0.27†	1.06	1.02†	0.26
Jefferson	245	9	94	15	0	0.25†	0.23†	0.47†	0.44†	0.12
Beaumont			95	61	0	0.19†	0.17†	0.90†	0.75†	0.18
Jefferson	245	11	94	14	0	0.33†	0.32†	0.79†	0.67†	0.25
Port Arthur			95	58	3	0.25†	0.19†	1.31	1.23	0.31
Jefferson	245	14	94	14	3	0.57†	0.31†	1.59	1.52	0.58
Groves			95	53	4	0.41†	0.22†	2.69	1.97	0.54
Jefferson	245	17	94	13	0	0.32†	0.25†	0.68†	0.63†	0.24
Nueces	355	20	94	14	1	0.48†	0.35†	2.14	0.91†	0.55
Corpus Christi			95	53	3	0.27†	0.14†	1.91	1.29	0.38
Orange	361	1001	94	15	0	0.17†	0.11†	0.53†	0.47†	0.18
West Orange			95	21	6	0.77†	0.34†	5.51	1.47	1.19
Smith	423	5	94	15	0	0.05†	0.05†	0.14†	0.12†	0.04
Winona			95	18	0	0.04†	0.01†	0.14†	0.13†	0.05
Tarrant	439	3002	94	1	0	0.05†		0.05†		
Grapevine			95	13	0	0.01†	<.01	0.05†	0.02†	0.01
Tarrant	439	3004	94	3	0	0.03†	0.02†	0.06†	0.02†	0.03
Irving, DFW Airport			95	6	0	0.03†	0.02†	0.09†	0.02†	0.03
Travis	453	17	94	10	0	0.07†	<.01	0.38†	0.09†	0.12
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

Cyclopentane Data Summary

1992 - 1995

MDL = 0.20

24-Hour ESL = 476.00

Annual ESL = 119.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	1	0.11†	0.10†	0.23	0.15†	0.06
San Antonio			95	4	0	0.05†	0.05†	0.06†	0.05†	0.01
Brazoria	39	1003	94	14	2	0.06†	0.06†	0.22	0.20	0.07
Clute			95	62	0	0.04†	0.01†	0.17†	0.14†	0.04
Cameron	61	6	94	14	2	0.09†	0.07†	0.28	0.25	0.09
Brownsville			95	57	3	0.07†	<.01	1.58	0.26	0.21
Dallas	113	70	94	14	2	0.07†	0.06†	0.29	0.22	0.09
Dallas			95	57	2	0.05†	0.01†	0.84	0.25	0.12
Ector	135	3	94	14	7	0.20	0.18†	0.51	0.51	0.19
Odessa			95	59	12	0.13†	0.07†	0.59	0.58	0.15
Ellis	139	7	94	12	0	0.04†	0.05†	0.09†	0.08†	0.03
Midlothian			95	58	0	0.02†	<.01	0.09†	0.06†	0.02
El Paso	141	47	94	14	7	2.46	0.20	17.29	12.21	5.33
El Paso			95	55	32	0.95	0.41	5.98	5.54	1.36
Galveston	167	53	94	11	3	0.14†	0.09†	0.37	0.28	0.11
Texas City			95	47	13	0.16†	0.09†	1.11	0.82	0.22
Harris	201	24	95	7	0	0.04†	0.04†	0.13†	0.05†	0.04
Aldine										
Harris	201	26	94	15	2	0.08†	0.07†	0.23	0.22	0.08
Channelview			95	55	5	0.09†	0.07†	0.49	0.41	0.11
Harris	201	64	94	14	4	0.21	0.08†	0.94	0.71	0.29
Houston, Allendale			95	53	15	0.15†	0.08†	1.04	0.74	0.21
Harris	201	803	94	14	2	0.12†	0.09†	0.54	0.21	0.14
Houston, Haden			95	57	20	0.16†	0.12†	0.63	0.60	0.14
Harris	201	1035	94	14	6	0.17†	0.12†	0.39	0.38	0.15
Houston, Clinton			95	60	23	0.17†	0.14†	0.96	0.50	0.17
Jefferson	245	9	94	15	4	0.13†	0.13†	0.32	0.21	0.09
Beaumont			95	61	14	0.13†	0.09†	0.63	0.54	0.13
Jefferson	245	11	94	14	4	0.11†	0.09†	0.25	0.22	0.09
Port Arthur			95	58	17	0.26	0.11†	4.09	1.59	0.58
Jefferson	245	14	94	14	8	0.27	0.24	1.19	0.42	0.30
Groves			95	53	21	0.23	0.16†	1.76	0.99	0.29
Jefferson	245	17	94	13	1	0.06†	0.03†	0.30	0.14†	0.09
Port Neches										
Nueces	355	20	94	14	5	0.17†	0.14†	0.70	0.48	0.21
Corpus Christi			95	53	14	0.16†	0.07†	1.50	1.16	0.28
Orange	361	1001	94	15	0	0.08†	0.08†	0.17†	0.14†	0.05
West Orange			95	21	2	0.12†	0.08†	0.61	0.49	0.16
Smith	423	5	94	15	0	0.04†	0.04†	0.09†	0.08†	0.03
Winona			95	18	1	0.05†	0.03†	0.20	0.15†	0.06
Tarrant	439	3002	94	1	0	<.01		<.01		
Grapevine			95	13	0	0.01†	<.01	0.04†	0.03†	0.01
Tarrant	439	3004	94	3	0	<.01	<.01	<.01	<.01	0.00
Irving, DFW Airport			95	6	0	0.01†	0.01†	0.03†	0.01†	0.01
Travis	453	17	94	10	2	0.10†	0.02†	0.43	0.23	0.14
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

n-Decane Data Summary
1992 - 1995

MDL = 0.92

24-Hour ESL = 690.00

Annual ESL = 173.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.07†	<.01	0.33†	0.25†	0.13
San Antonio			95	4	0	0.02†	0.02†	0.03†	0.03†	0.01
Brazoria	39	1003	94	14	0	0.07†	<.01	0.70†	0.22†	0.19
Clute			95	62	0	0.03†	<.01	0.42†	0.36†	0.08
Cameron	61	6	94	14	1	0.16†	<.01	1.99	0.11†	0.53
Brownsville			95	57	1	0.10†	<.01	1.18	0.54†	0.20
Dallas	113	70	94	14	0	0.08†	<.01	0.47†	0.36†	0.15
Dallas			95	57	0	0.04†	<.01	0.23†	0.22†	0.06
Ector	135	3	94	14	0	0.01†	<.01	0.12†	<.01	0.03
Odessa			95	59	0	0.04†	<.01	0.39†	0.38†	0.09
Ellis	139	7	94	12	0	0.07†	<.01	0.62†	0.11†	0.18
Midlothian			95	58	0	0.04†	<.01	0.90†	0.18†	0.12
El Paso	141	47	94	14	2	0.29†	<.01	1.72	1.57	0.60
El Paso			95	55	0	0.06†	<.01	0.41†	0.29†	0.09
Galveston	167	53	94	11	0	0.13†	<.01	0.71†	0.65†	0.27
Texas City			95	47	0	0.05†	<.01	0.90†	0.27†	0.14
Harris	201	24	95	7	0	0.01†	<.01	0.03†	0.03†	0.01
Aldine										
Harris	201	26	94	15	2	0.71†	<.01	5.62	4.48	1.78
Channelview			95	55	0	0.04†	<.01	0.27†	0.20†	0.06
Harris	201	64	94	14	1	0.21†	<.01	2.28	0.32†	0.61
Houston, Allendale			95	53	0	0.03†	<.01	0.18†	0.18†	0.05
Harris	201	803	94	14	1	0.17†	<.01	1.73	0.39†	0.46
Houston, Haden			95	57	0	0.06†	<.01	0.51†	0.35†	0.10
Harris	201	1035	94	14	0	0.09†	<.01	0.71†	0.32†	0.20
Houston, Clinton			95	60	0	0.06†	<.01	0.29†	0.28†	0.08
Jefferson	245	9	94	15	1	0.21†	<.01	0.94	0.81†	0.36
Beaumont			95	61	0	0.13†	<.01	0.81†	0.49†	0.17
Jefferson	245	11	94	14	2	0.28†	<.01	2.22	1.39	0.67
Port Arthur			95	58	1	0.19†	<.01	9.21	0.35†	1.21
Jefferson	245	14	94	14	1	0.21†	<.01	2.23	0.40†	0.59
Groves			95	53	0	0.08†	<.01	0.36†	0.35†	0.10
Jefferson	245	17	94	13	2	0.26†	<.01	2.12	1.22	0.65
Port Neches										
Nueces	355	20	94	14	1	0.13†	<.01	0.95	0.33†	0.26
Corpus Christi			95	53	1	0.07†	<.01	0.95	0.55†	0.17
Orange	361	1001	94	15	0	0.08†	<.01	0.83†	0.21†	0.22
West Orange			95	21	0	0.01†	<.01	0.21†	<.01	0.04
Smith	423	5	94	15	2	0.40†	<.01	3.63	1.80	1.01
Winona			95	18	0	0.01†	<.01	0.03†	0.02†	0.01
Tarrant	439	3002	94	1	0	0.72†	<.01	0.72†	0.03†	0.02
Grapevine			95	13	0	0.01†	<.01	0.09†		
Tarrant	439	3004	94	3	1	0.47†	0.22†	0.97	0.22†	0.44
Irving, DFW Airport			95	6	0	0.01†	<.01	0.02†	0.02†	0.01
Travis	453	17	94	10	1	0.35†	0.09†	2.38	0.38†	0.73
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

1,1-Dichloroethane Data Summary

1992 - 1995

MDL = 0.16

24-Hour ESL = 400.00

Annual ESL = 100.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	0	0.01†	<.01	0.02†	0.01†	0.00
San Antonio			95	4	0	0.01†	<.01	0.01†	<.01	0.00
Brazoria	39	1003	94	49	0	0.01†	<.01	0.01†	0.01†	0.00
Clute			95	62	0	0.01†	<.01	0.02†	0.01†	0.00
Cameron	61	6	94	54	0	0.01†	<.01	0.05†	<.01	0.01
Brownsville			95	57	0	0.01†	<.01	0.01†	0.01†	0.00
Dallas	113	70	94	53	0	0.01†	<.01	0.07†	0.01†	0.01
Dallas			95	57	0	0.01†	<.01	0.02†	0.01†	0.00
Ector	135	3	94	54	0	0.01†	<.01	0.05†	0.01†	0.01
Odessa			95	59	0	<.01	<.01	<.01	<.01	0.00
Ellis	139	7	94	47	0	0.01†	<.01	0.05†	0.04†	0.01
Midlothian			95	58	0	0.01†	<.01	0.01†	0.01†	0.00
El Paso	141	47	94	53	0	0.01†	<.01	0.06†	<.01	0.01
El Paso			95	55	0	0.01†	<.01	0.01†	<.01	0.00
Galveston	167	53	94	46	7	0.04†	<.01	0.22	0.18	0.05
Texas City			95	47	2	0.03†	<.01	0.26	0.18	0.05
Harris	201	24	95	7	0	<.01	<.01	<.01	<.01	0.00
Aldine										
Harris	201	26	94	54	0	0.01†	<.01	0.05†	0.05†	0.01
Channelview			95	55	0	0.01†	<.01	0.01†	0.01†	0.00
Harris	201	64	94	49	0	0.01†	<.01	0.03†	0.03†	0.01
Houston, Allendale			95	53	0	0.01†	<.01	0.06†	<.01	0.01
Harris	201	803	94	53	0	0.01†	<.01	0.02†	<.01	0.00
Houston, Haden			95	57	0	0.01†	<.01	0.03†	0.01†	0.00
Harris	201	1035	94	53	1	0.02†	<.01	0.67	<.01	0.09
Houston, Clinton			95	60	0	0.01†	<.01	0.14†	0.08†	0.02
Jefferson	245	9	94	54	0	0.01†	<.01	0.06†	0.05†	0.01
Beaumont			95	61	0	0.01†	<.01	0.05†	0.02†	0.01
Jefferson	245	11	94	52	0	0.01†	<.01	0.02†	0.01†	0.00
Port Arthur			95	58	0	0.01†	<.01	0.01†	0.01†	0.00
Jefferson	245	14	94	53	0	0.01†	<.01	0.05†	0.03†	0.01
Groves			95	53	0	0.01†	<.01	0.03†	0.02†	0.00
Jefferson	245	17	94	23	0	0.01†	<.01	0.02†	0.01†	0.00
Nueces	355	20	94	48	1	0.01†	<.01	0.19	0.05†	0.03
Corpus Christi			95	53	0	0.01†	<.01	0.13†	0.12†	0.02
Orange	361	1001	94	27	0	0.01†	<.01	0.07†	0.03†	0.01
West Orange			95	21	0	0.01†	<.01	0.05†	<.01	0.01
Smith	423	5	94	32	2	0.03†	<.01	0.37	0.28	0.08
Winona			95	18	0	0.01†	<.01	0.04†	0.01†	0.01
Tarrant	439	3002	94	15	0	<.01	<.01	<.01	<.01	0.00
Grapevine			95	13	0	0.01†	<.01	0.01†	<.01	0.00
Tarrant	439	3004	94	9	0	<.01	<.01	<.01	<.01	0.00
Irving, DFW Airport			95	6	0	<.01	<.01	<.01	<.01	0.00
Travis	453	17	94	21	0	0.01†	<.01	0.04†	<.01	0.01
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

1,2-Dichloroethane Data Summary

1992 - 1995

MDL = 0.52

24-Hour ESL = 4.00

Annual ESL = 1.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	0	0.04†	<.01	0.11†	0.09†	0.04
San Antonio			95	4	0	0.01†	0.01†	0.02†	0.01†	0.01
Brazoria	39	1003	92	6	1	0.18†	<.01	1.07	<.01	0.43
Clute			93	46	1	0.09†	0.04†	0.95	0.42†	0.16
			94	53	0	0.05†	0.04†	0.28†	0.19†	0.06
			95	62	1	0.02†	<.01	0.67	0.23†	0.09
Cameron	61	6	93	19	0	0.14†	0.14†	0.38†	0.32†	0.12
Brownsville			94	59	0	0.05†	0.03†	0.21†	0.21†	0.06
			95	57	0	0.01†	<.01	0.04†	0.03†	0.01
Dallas	113	70	93	49	0	0.03†	0.01†	0.13†	0.11†	0.03
Dallas			94	58	0	0.04†	0.03†	0.15†	0.14†	0.03
			95	57	0	0.01†	<.01	0.12†	0.02†	0.02
Ector	135	3	93	52	0	0.03†	0.01†	0.21†	0.15†	0.04
Odessa			94	59	0	0.05†	0.01†	0.29†	0.25†	0.07
			95	59	0	0.01†	<.01	0.02†	0.01†	0.00
Ellis	139	7	93	55	0	0.04†	0.02†	0.46†	0.21†	0.08
Midlothian			94	51	0	0.04†	0.03†	0.20†	0.18†	0.05
			95	58	0	0.01†	<.01	0.01†	0.01†	0.00
El Paso	141	47	93	33	0	0.05†	0.02†	0.36†	0.15†	0.07
El Paso			94	58	0	0.06†	0.01†	0.32†	0.32†	0.08
			95	55	0	0.01†	<.01	0.04†	0.02†	0.01
Galveston	167	53	92	9	0	0.01†	<.01	0.07†	<.01	0.02
Texas City			93	51	0	0.05†	0.01†	0.35†	0.22†	0.07
			94	51	0	0.08†	0.08†	0.42†	0.23†	0.09
			95	47	0	0.01†	<.01	0.08†	0.06†	0.01
Harris	201	24	95	7	0	0.01†	<.01	0.03†	0.01†	0.01
Aldine										
Harris	201	26	92	7	0	<.01	<.01	<.01	<.01	0.00
Channelview			93	49	2	0.09†	0.01†	1.57	0.90	0.26
			94	59	2	0.16†	0.13†	1.59	1.06	0.25
			95	55	0	0.01†	<.01	0.05†	0.04†	0.01
Harris	201	64	93	43	0	0.05†	<.01	0.32†	0.17†	0.07
Houston, Allendale			94	54	0	0.06†	<.01	0.37†	0.35†	0.09
			95	53	0	0.01†	<.01	0.07†	0.06†	0.01
Harris	201	803	92	1	0	<.01		<.01		
Houston, Haden			93	56	2	0.16†	0.02†	3.72	0.77	0.50
			94	58	7	0.60	0.09†	10.83 **	8.83 **	1.89
			95	57	3	0.05†	<.01	0.79	0.78	0.17
Harris	201	1035	92	8	1	0.13†	<.01	0.99	<.01	0.35
Houston, Clinton			93	50	2	0.09†	0.02†	0.83	0.53	0.17
			94	58	1	0.11†	0.07†	1.41	0.39†	0.20
			95	60	0	0.01†	<.01	0.04†	0.03†	0.01

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

1,2-Dichloroethane Data Summary (continued)
1992 - 1995

MDL = 0.52

24-Hour ESL = 4.00

Annual ESL = 1.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Jefferson Beaumont	245 9	92	5	0	<.01	<.01	<.01	<.01	0.00
		93	56	1	0.06†	<.01	0.73	0.32†	0.12
		94	59	0	0.05†	0.04†	0.26†	0.23†	0.06
		95	61	0	0.01†	<.01	0.15†	0.06†	0.02
Jefferson Port Arthur	245 11	92	7	0	<.01	<.01	<.01	<.01	0.00
		93	60	1	0.05†	0.01†	0.53	0.35†	0.09
		94	57	1	0.10†	<.01	0.93	0.33†	0.15
		95	58	0	0.01†	<.01	0.05†	0.02†	0.01
Jefferson Groves	245 14	93	18	0	0.11†	0.07†	0.35†	0.32†	0.11
		94	58	0	0.06†	0.04†	0.40†	0.28†	0.08
		95	53	0	0.01†	<.01	0.08†	0.06†	0.01
Jefferson Port Neches	245 17	94	23	0	0.05†	<.01	0.20†	0.19†	0.07
Nueces Corpus Christi	355 20	93	55	1	0.07†	0.03†	0.67	0.21†	0.10
		94	52	0	0.05†	0.03†	0.28†	0.18†	0.06
		95	53	0	0.01†	<.01	0.02†	0.01†	0.00
Orange West Orange	361 1001	94	27	0	0.04†	<.01	0.21†	0.13†	0.05
		95	21	0	<.01	<.01	<.01	<.01	0.00
Smith Winona	423 5	94	32	1	0.06†	<.01	0.96	0.17†	0.17
		95	18	0	0.01†	<.01	0.05†	0.01†	0.01
Tarrant Grapevine	439 3002	94	15	0	0.06†	0.06†	0.12†	0.08†	0.03
		95	13	0	0.01†	<.01	0.01†	0.01†	0.00
Tarrant Irving, DFW Airport	439 3004	94	9	0	0.02†	<.01	0.07†	0.06†	0.03
		95	6	0	0.01†	0.01†	0.01†	0.01†	0.00
Travis Austin	453 17	94	21	0	0.04†	<.01	0.21†	0.11†	0.05

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

1,1-Dichloroethylene Data Summary

1992 - 1995

MDL = 0.15

24-Hour ESL = 4.00

Annual ESL = 1.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	0	<.01	<.01	<.01	<.01	0.00
San Antonio			95	4	0	<.01	<.01	<.01	<.01	0.00
Brazoria	39	1003	94	49	0	0.01†	<.01	0.07†	0.07†	0.01
Clute			95	62	0	0.01†	<.01	0.02†	0.01†	0.00
Cameron	61	6	94	54	0	<.01	<.01	<.01	<.01	0.00
Brownsville			95	57	0	0.01†	<.01	0.06†	0.02†	0.01
Dallas	113	70	94	53	0	<.01	<.01	<.01	<.01	0.00
Dallas			95	57	0	0.01†	<.01	0.02†	0.02†	0.00
Ector	135	3	94	54	0	<.01	<.01	<.01	<.01	0.00
Odessa			95	59	0	0.01†	<.01	0.10†	0.07†	0.01
Ellis	139	7	94	47	0	<.01	<.01	<.01	<.01	0.00
Midlothian			95	58	0	0.01†	<.01	0.03†	0.01†	0.00
El Paso	141	47	94	53	0	<.01	<.01	<.01	<.01	0.00
El Paso			95	55	0	0.01†	<.01	0.01†	0.01†	0.00
Galveston	167	53	94	46	0	<.01	<.01	<.01	<.01	0.00
Texas City			95	47	0	0.01†	<.01	0.10†	0.02†	0.01
Harris	201	24	95	7	0	0.01†	0.01†	0.03†	0.01†	0.01
Aldine										
Harris	201	26	94	54	0	<.01	<.01	<.01	<.01	0.00
Channelview			95	55	0	0.01†	<.01	0.01†	<.01	0.00
Harris	201	64	94	49	0	<.01	<.01	<.01	<.01	0.00
Houston, Allendale			95	53	0	0.01†	<.01	0.11†	0.04†	0.02
Harris	201	803	94	53	0	<.01	<.01	<.01	<.01	0.00
Houston, Haden			95	57	0	0.01†	<.01	0.10†	0.01†	0.01
Harris	201	1035	94	53	0	<.01	<.01	<.01	<.01	0.00
Houston, Clinton			95	60	0	0.01†	<.01	0.04†	0.02†	0.01
Jefferson	245	9	94	54	0	<.01	<.01	<.01	<.01	0.00
Beaumont			95	61	0	0.01†	<.01	0.10†	0.01†	0.01
Jefferson	245	11	94	52	0	<.01	<.01	<.01	<.01	0.00
Port Arthur			95	58	0	0.01†	<.01	0.04†	<.01	0.00
Jefferson	245	14	94	53	0	<.01	<.01	<.01	<.01	0.00
Groves			95	53	0	0.01†	<.01	0.04†	<.01	0.00
Jefferson	245	17	94	23	0	<.01	<.01	<.01	<.01	0.00
Port Neches										
Nueces	355	20	94	48	0	<.01	<.01	<.01	<.01	0.00
Corpus Christi			95	53	0	0.01†	<.01	0.01†	<.01	0.00
Orange	361	1001	94	27	0	<.01	<.01	<.01	<.01	0.00
West Orange			95	21	0	<.01	<.01	<.01	<.01	0.00
Smith	423	5	94	32	0	<.01	<.01	<.01	<.01	0.00
Winona			95	18	0	0.01†	<.01	0.05†	<.01	0.01
Tarrant	439	3002	94	15	0	<.01	<.01	<.01	<.01	0.00
Grapevine			95	13	0	0.01†	<.01	0.01†	<.01	0.00
Tarrant	439	3004	94	9	0	<.01	<.01	<.01	<.01	0.00
Irving, DFW Airport			95	6	0	<.01	<.01	<.01	<.01	0.00
Travis	453	17	94	21	0	<.01	<.01	<.01	<.01	0.00
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

1,2-Dichloropropane Data Summary

1992 - 1995

MDL = 0.25

24-Hour ESL = 300.00

Annual ESL = 75.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	0	<.01	<.01	<.01	<.01	0.00
San Antonio			95	4	0	<.01	<.01	<.01	<.01	0.00
Brazoria	39	1003	92	7	0	<.01	<.01	<.01	<.01	0.00
Clute			93	46	1	0.02†	<.01	0.51	0.17†	0.08
			94	53	0	0.01†	<.01	0.09†	<.01	0.01
			95	62	1	0.07†	<.01	3.60	0.10†	0.46
Cameron	61	6	93	19	0	<.01	<.01	<.01	<.01	0.00
Brownsville			94	59	0	<.01	<.01	<.01	<.01	0.00
			95	57	0	<.01	<.01	<.01	<.01	0.00
Dallas	113	70	93	49	0	0.01†	<.01	0.01†	<.01	0.00
Dallas			94	58	0	<.01	<.01	<.01	<.01	0.00
			95	57	0	0.01†	<.01	0.11†	<.01	0.01
Ector	135	3	93	52	0	<.01	<.01	<.01	<.01	0.00
Odessa			94	59	0	<.01	<.01	<.01	<.01	0.00
			95	59	0	<.01	<.01	<.01	<.01	0.00
Ellis	139	7	93	55	1	0.01†	<.01	0.44	<.01	0.06
Midlothian			94	51	0	0.01†	<.01	0.13†	<.01	0.02
			95	58	0	0.01†	<.01	0.07†	<.01	0.01
El Paso	141	47	93	33	0	<.01	<.01	<.01	<.01	0.00
El Paso			94	58	0	<.01	<.01	<.01	<.01	0.00
			95	55	0	<.01	<.01	<.01	<.01	0.00
Galveston	167	53	92	9	0	<.01	<.01	<.01	<.01	0.00
Texas City			93	51	0	0.01†	<.01	0.20†	<.01	0.03
			94	51	0	<.01	<.01	<.01	<.01	0.00
			95	47	0	0.01†	<.01	0.12†	0.02†	0.02
Harris	201	24	95	7	0	<.01	<.01	<.01	<.01	0.00
Aldine										
Harris	201	26	92	7	0	<.01	<.01	<.01	<.01	0.00
Channelview			93	49	0	<.01	<.01	<.01	<.01	0.00
			94	59	0	<.01	<.01	<.01	<.01	0.00
			95	55	1	0.01†	<.01	0.32	0.07†	0.04
Harris	201	64	93	43	0	<.01	<.01	<.01	<.01	0.00
Houston, Allendale			94	54	0	<.01	<.01	<.01	<.01	0.00
			95	53	0	0.01†	<.01	0.13†	<.01	0.02
Harris	201	803	92	1	0	<.01	<.01	<.01	<.01	0.00
Houston, Haden			93	56	0	0.01†	<.01	0.03†	<.01	0.00
			94	58	0	<.01	<.01	<.01	<.01	0.00
			95	57	0	<.01	<.01	<.01	<.01	0.00
Harris	201	1035	92	8	0	<.01	<.01	<.01	<.01	0.00
Houston, Clinton			93	50	0	0.01†	<.01	0.17†	<.01	0.02
			94	58	1	0.01†	<.01	0.51	<.01	0.07
			95	60	0	0.01†	<.01	0.01†	<.01	0.00

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

1,2-Dichloropropane Data Summary (continued)
1992 - 1995

MDL = 0.25

24-Hour ESL = 300.00

Annual ESL = 75.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Jefferson Beaumont	245 9	92	7	0	<.01	<.01	<.01	<.01	0.00
		93	56	0	<.01	<.01	<.01	<.01	0.00
		94	59	0	<.01	<.01	<.01	<.01	0.00
		95	61	0	0.01†	<.01	0.12†	0.01†	0.01
Jefferson Port Arthur	245 11	92	7	0	<.01	<.01	<.01	<.01	0.00
		93	60	0	<.01	<.01	<.01	<.01	0.00
		94	57	0	<.01	<.01	<.01	<.01	0.00
		95	58	0	<.01	<.01	<.01	<.01	0.00
Jefferson Groves	245 14	93	18	0	<.01	<.01	<.01	<.01	0.00
		94	58	0	<.01	<.01	<.01	<.01	0.00
		95	53	0	0.01†	<.01	0.01†	<.01	0.00
Jefferson Port Neches	245 17	94	23	0	<.01	<.01	<.01	<.01	0.00
Nueces Corpus Christi	355 20	93	55	0	<.01	<.01	<.01	<.01	0.00
		94	52	1	0.01†	<.01	0.32	<.01	0.04
		95	53	1	0.02†	<.01	0.95	0.10†	0.13
Orange West Orange	361 1001	94	27	0	<.01	<.01	<.01	<.01	0.00
		95	21	1	0.03†	<.01	0.52	<.01	0.11
Smith Winona	423 5	94	32	1	0.02†	<.01	0.59	0.04†	0.10
		95	18	0	0.01†	<.01	0.05†	<.01	0.01
Tarrant Grapevine	439 3002	94	15	0	<.01	<.01	<.01	<.01	0.00
		95	13	0	<.01	<.01	<.01	<.01	0.00
Tarrant Irving, DFW Airport	439 3004	94	9	0	<.01	<.01	<.01	<.01	0.00
		95	6	0	<.01	<.01	<.01	<.01	0.00
Travis Austin	453 17	94	21	0	<.01	<.01	<.01	<.01	0.00

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

2,2-Dimethylbutane Data Summary

1992 - 1995

MDL = 0.30

24-Hour ESL = 400.00

Annual ESL = 100.00

	County	Site	Year	Number	Number Valid Samples	Mean Samples £ MDL	Median	High	Second	Std Dev
Bexar	29	51	94	9	2	0.17†	0.18†	0.41	0.30	0.14
San Antonio			95	4	0	0.11†	0.11†	0.21†	0.21†	0.12
Brazoria	39	1003	94	14	0	0.09†	0.08†	0.20†	0.20†	0.08
Clute			95	62	1	0.03†	<.01	0.65	0.25†	0.09
Cameron	61	6	94	14	3	0.19†	0.14†	0.91	0.41	0.25
Brownsville			95	57	2	0.04†	<.01	0.43	0.36	0.09
Dallas	113	70	94	14	1	0.10†	0.07†	0.42	0.21†	0.12
Dallas			95	57	4	0.07†	<.01	1.06	0.85	0.20
Ector	135	3	94	14	1	0.12†	0.11†	0.44	0.27†	0.13
Odessa			95	59	0	0.02†	<.01	0.15†	0.08†	0.03
Ellis	139	7	94	12	0	0.09†	0.12†	0.17†	0.17†	0.06
Midlothian			95	58	0	0.01†	<.01	0.13†	0.06†	0.02
El Paso	141	47	94	14	2	0.17†	0.09†	0.98	0.40	0.26
El Paso			95	55	4	0.10†	<.01	1.67	1.44	0.30
Galveston	167	53	94	11	3	0.21†	0.15†	0.58	0.42	0.18
Texas City			95	47	9	0.23†	<.01	4.49	1.42	0.69
Harris	201	24	95	7	1	0.12†	0.05†	0.36	0.24†	0.14
Aldine										
Harris	201	26	94	15	2	0.12†	0.07†	0.40	0.40	0.14
Channelview			95	55	0	0.02†	<.01	0.15†	0.14†	0.04
Harris	201	64	94	14	2	0.20†	0.13†	1.10	0.36	0.28
Houston, Allendale			95	53	2	0.08†	<.01	1.01	0.31	0.16
Harris	201	803	94	14	1	0.11†	0.08†	0.42	0.23†	0.12
Houston, Haden			95	57	3	0.07†	<.01	1.03	0.39	0.16
Harris	201	1035	94	14	4	0.21†	0.18†	0.76	0.44	0.22
Houston, Clinton			95	60	3	0.09†	<.01	0.42	0.35	0.12
Jefferson	245	9	94	15	4	0.22†	0.14†	0.75	0.56	0.23
Beaumont			95	61	4	0.08†	<.01	0.52	0.39	0.12
Jefferson	245	11	94	14	0	0.08†	0.08†	0.26†	0.25†	0.08
Port Arthur			95	58	3	0.08†	<.01	0.75	0.43	0.14
Jefferson	245	14	94	14	7	0.24†	0.25†	0.51	0.41	0.17
Groves			95	53	10	0.16†	<.01	2.46	0.72	0.37
Jefferson	245	17	94	13	9	4.60	5.36	11.02	9.28	3.97
Nueces	355	20	94	14	3	0.18†	0.08†	0.72	0.56	0.23
Corpus Christi			95	53	9	0.41	<.01	14.08	2.65	1.95
Orange	361	1001	94	15	11	0.30	0.37	0.69	0.48	0.21
West Orange			95	21	8	0.49	<.01	2.75	2.59	0.82
Smith	423	5	94	15	3	0.53	0.06†	6.38	0.75	1.63
Winona			95	18	2	0.07†	<.01	0.43	0.30	0.12
Tarrant	439	3002	94	1	0	<.01		<.01		
Grapevine			95	13	1	0.04†	<.01	0.41	0.08†	0.11
Tarrant	439	3004	94	3	0	<.01	<.01	<.01	<.01	0.00
Irving, DFW Airport			95	6	0	0.01†	<.01	0.02†	<.01	0.01
Travis	453	17	94	10	3	0.21†	0.05†	0.94	0.42	0.30
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

2,3-Dimethylbutane Data Summary

1992 - 1995

MDL = 0.17

24-Hour ESL = 400.00

Annual ESL = 100.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	7	0.42	0.43	1.03	0.61	0.31
San Antonio			95	4	1	0.14†	0.14†	0.18	0.15†	0.04
Brazoria	39	1003	94	14	9	0.27	0.18	1.02	0.66	0.31
Clute			95	62	24	0.18	0.10†	1.03	0.78	0.22
Cameron	61	6	94	14	7	0.54	0.24	2.10	2.00	0.71
Brownsville			95	57	25	0.23	0.13†	1.86	0.82	0.30
Dallas	113	70	94	14	9	0.39	0.23	1.79	0.86	0.49
Dallas			95	57	26	0.23	0.13†	1.42	0.98	0.29
Ector	135	3	94	14	11	0.66	0.49	2.08	1.35	0.59
Odessa			95	59	36	0.41	0.24	2.53	1.56	0.47
Ellis	139	7	94	12	8	0.36	0.24	1.50	0.73	0.43
Midlothian			95	58	10	0.11†	0.05†	1.06	0.87	0.20
El Paso	141	47	94	14	11	2.38	0.47	16.21	8.10	4.52
El Paso			95	55	49	1.01	0.59	6.90	4.03	1.24
Galveston	167	53	94	11	11	0.83	0.65	2.26	1.32	0.65
Texas City			95	47	26	0.53	0.31	2.71	2.17	0.65
Harris	201	24	95	7	4	0.18	0.17	0.37	0.25	0.10
Aldine										
Harris	201	26	94	15	6	0.31	0.10†	1.37	0.78	0.40
Channelview			95	55	32	0.39	0.21	2.30	1.75	0.47
Harris	201	64	94	14	13	1.01	0.43	7.21	1.32	1.83
Houston, Allendale			95	53	34	0.41	0.24	2.34	1.61	0.46
Harris	201	803	94	14	13	0.51	0.43	1.49	1.05	0.41
Houston, Haden			95	57	40	0.65	0.34	4.72	2.88	0.86
Harris	201	1035	94	14	13	0.93	0.64	2.72	1.89	0.77
Houston, Clinton			95	60	44	0.69	0.35	3.30	3.00	0.82
Jefferson	245	9	94	15	13	0.70	0.46	3.63	1.24	0.88
Beaumont			95	61	41	0.49	0.26	2.44	2.20	0.55
Jefferson	245	11	94	14	8	0.27	0.18	0.73	0.73	0.27
Port Arthur			95	58	37	0.56	0.30	5.10	2.92	0.83
Jefferson	245	14	94	14	12	0.84	0.80	2.16	1.75	0.62
Groves			95	53	41	0.54	0.42	2.98	1.77	0.54
Jefferson	245	17	94	13	11	0.55	0.37	1.97	1.64	0.59
Port Neches										
Nueces	355	20	94	14	10	0.67	0.28	2.40	2.27	0.80
Corpus Christi			95	53	34	0.72	0.27	8.33	7.36	1.55
Orange	361	1001	94	15	13	0.62	0.44	1.97	1.34	0.52
West Orange			95	21	18	0.83	0.61	2.46	2.34	0.71
Smith	423	5	94	15	10	0.29	0.16	1.44	1.10	0.41
Winona			95	18	5	0.21	0.08†	1.06	0.66	0.29
Tarrant	439	3002	94	1	0	<.01		<.01		
Grapevine			95	13	3	0.10†	0.04†	0.46	0.24	0.13
Tarrant	439	3004	94	3	3	0.18	0.15	0.25	0.15	0.06
Irving, DFW Airport			95	6	1	0.09†	0.07†	0.24	0.09†	0.08
Travis	453	17	94	10	8	0.56	0.49	1.53	0.93	0.45
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

2,3-Dimethylpentane Data Summary

1992 - 1995

MDL = 0.12

24-Hour ESL = 400.00

Annual ESL = 100.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	5	0.16	0.17	0.29	0.28	0.09
San Antonio			95	4	0	0.01†	<.01	0.03†	<.01	0.01
Brazoria	39	1003	94	14	5	0.09†	0.10†	0.31	0.19	0.09
Clute			95	62	14	0.10†	0.02†	0.95	0.78	0.18
Cameron	61	6	94	14	7	0.17	0.11†	0.63	0.57	0.21
Brownsville			95	57	10	0.10†	<.01	2.27	0.63	0.31
Dallas	113	70	94	14	8	0.17	0.14	0.69	0.60	0.22
Dallas			95	57	11	0.07†	<.01	0.48	0.46	0.11
Ector	135	3	94	14	10	0.38	0.35	1.09	0.66	0.32
Odessa			95	59	22	0.21	0.07†	3.31	1.67	0.50
Ellis	139	7	94	12	3	0.07†	0.05†	0.15	0.14	0.06
Midlothian			95	58	2	0.02†	<.01	0.22	0.16	0.04
El Paso	141	47	94	14	10	0.37	0.22	1.48	1.07	0.45
El Paso			95	55	48	0.51	0.41	1.71	1.43	0.41
Galveston	167	53	94	11	5	0.15	0.11†	0.37	0.34	0.13
Texas City			95	47	14	0.13	0.02†	1.27	0.70	0.23
Harris	201	24	95	7	0	0.03†	<.01	0.08†	0.08†	0.04
Aldine										
Harris	201	26	94	15	5	0.10†	0.08†	0.24	0.24	0.08
Channelview			95	55	15	0.09†	0.03†	0.56	0.39	0.12
Harris	201	64	94	14	11	0.28	0.17	1.15	0.66	0.31
Houston, Allendale			95	53	17	0.14	0.04†	1.19	1.14	0.26
Harris	201	803	94	14	9	0.22	0.16	0.53	0.47	0.17
Houston, Haden			95	57	23	0.13	0.08†	1.07	0.82	0.20
Harris	201	1035	94	14	10	0.33	0.28	1.19	0.66	0.32
Houston, Clinton			95	60	34	0.25	0.15	1.92	1.41	0.37
Jefferson	245	9	94	15	11	0.17	0.19	0.31	0.31	0.10
Beaumont			95	61	14	0.08†	0.03†	0.60	0.42	0.12
Jefferson	245	11	94	14	8	0.17	0.16	0.34	0.34	0.13
Port Arthur			95	58	18	0.10†	0.07†	0.90	0.71	0.16
Jefferson	245	14	94	14	8	0.29	0.17	0.95	0.80	0.30
Groves			95	53	27	0.24	0.13	1.51	1.34	0.33
Jefferson	245	17	94	13	5	0.11†	0.10†	0.31	0.17	0.09
Port Neches										
Nueces	355	20	94	14	7	0.30	0.11†	1.98	0.64	0.52
Corpus Christi			95	53	24	0.31	0.10†	4.90	1.46	0.73
Orange	361	1001	94	15	9	0.13	0.14	0.40	0.23	0.11
West Orange			95	21	9	0.12†	0.09†	0.31	0.29	0.10
Smith	423	5	94	15	8	0.16	0.12	0.46	0.30	0.13
Winona			95	18	2	0.03†	<.01	0.17	0.14	0.05
Tarrant	439	3002	94	1	0	<.01		<.01		
Grapevine			95	13	1	0.02†	<.01	0.12	0.02†	0.03
Tarrant	439	3004	94	3	0	0.03†	<.01	0.08†	<.01	0.04
Irving, DFW Airport			95	6	0	0.01†	<.01	0.02†	<.01	0.01
Travis	453	17	94	10	5	0.17	0.15	0.63	0.34	0.20
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

2,4-Dimethylpentane Data Summary

1992 - 1995

MDL = 0.19

24-Hour ESL = 400.00

Annual ESL = 100.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	3	0.12†	<.01	0.41	0.29	0.15
San Antonio			95	4	0	0.06†	0.07†	0.09†	0.07†	0.04
Brazoria	39	1003	94	14	2	0.09†	0.10†	0.25	0.20	0.08
Clute			95	62	1	0.02†	<.01	1.07	0.02†	0.14
Cameron	61	6	94	14	7	0.16†	0.16†	0.45	0.34	0.16
Brownsville			95	57	4	0.04†	<.01	1.01	0.28	0.14
Dallas	113	70	94	14	4	0.13†	0.13†	0.30	0.22	0.09
Dallas			95	57	2	0.02†	<.01	0.22	0.20	0.05
Ector	135	3	94	14	8	0.29	0.36	0.75	0.65	0.27
Odessa			95	59	0	0.01†	<.01	0.05†	0.04†	0.01
Ellis	139	7	94	12	0	0.06†	<.01	0.17†	0.15†	0.07
Midlothian			95	58	0	0.01†	<.01	0.13†	0.02†	0.02
El Paso	141	47	94	14	11	0.58	0.37	2.61	0.98	0.66
El Paso			95	55	31	0.31	0.21	1.78	1.40	0.35
Galveston	167	53	94	11	5	0.19†	0.18†	0.34	0.30	0.10
Texas City			95	47	2	0.02†	<.01	0.34	0.21	0.06
Harris	201	24	95	7	0	0.03†	0.02†	0.08†	0.06†	0.03
Aldine										
Harris	201	26	94	15	6	0.16†	0.17†	0.40	0.35	0.14
Channelview			95	55	2	0.02†	<.01	0.33	0.20	0.05
Harris	201	64	94	14	9	0.26	0.26	0.67	0.56	0.21
Houston, Allendale			95	53	5	0.04†	<.01	0.46	0.35	0.09
Harris	201	803	94	14	7	0.21	0.18†	0.44	0.41	0.13
Houston, Haden			95	57	5	0.04†	<.01	0.60	0.25	0.10
Harris	201	1035	94	14	9	0.31	0.29	0.80	0.66	0.24
Houston, Clinton			95	60	11	0.12†	<.01	1.23	0.82	0.24
Jefferson	245	9	94	15	10	0.36	0.34	1.63	0.75	0.42
Beaumont			95	61	5	0.05†	<.01	0.61	0.46	0.13
Jefferson	245	11	94	14	6	0.14†	0.14†	0.29	0.29	0.11
Port Arthur			95	58	8	0.06†	<.01	0.74	0.47	0.14
Jefferson	245	14	94	14	7	0.21	0.20	0.64	0.35	0.17
Groves			95	53	10	0.10†	<.01	0.80	0.68	0.18
Jefferson	245	17	94	13	4	0.12†	0.14†	0.28	0.21	0.09
Port Neches										
Nueces	355	20	94	14	4	0.16†	0.18†	0.59	0.29	0.16
Corpus Christi			95	53	5	0.07†	<.01	0.71	0.48	0.14
Orange	361	1001	94	15	6	0.15†	0.15†	0.39	0.29	0.13
West Orange			95	21	2	0.03†	<.01	0.30	0.21	0.08
Smith	423	5	94	15	3	0.12†	0.09†	0.44	0.29	0.12
Winona			95	18	0	0.02†	<.01	0.15†	0.07†	0.04
Tarrant	439	3002	94	1	1	0.27		0.27		
Grapevine			95	13	0	0.01†	<.01	0.08†	0.02†	0.02
Tarrant	439	3004	94	3	1	0.18†	0.18†	0.20	0.18†	0.02
Irving, DFW Airport			95	6	0	0.02†	0.02†	0.03†	0.02†	0.01
Travis	453	17	94	10	6	0.23	0.20	0.36	0.36	0.09
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

Ethyl Benzene Data Summary

1992 - 1995

MDL = 1.07

24-Hour ESL = 400.00

Annual ESL = 100.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	0	0.37†	0.27†	0.95†	0.78†	0.23
San Antonio			95	4	0	0.14†	0.11†	0.25†	0.12†	0.07
Brazoria	39	1003	92	7	0	0.12†	0.06†	0.42†	0.25†	0.16
Clute			93	46	1	0.33†	0.24†	1.67	0.80†	0.31
			94	53	0	0.17†	0.17†	0.47†	0.35†	0.09
			95	62	0	0.14†	0.09†	0.95†	0.40†	0.14
Cameron	61	6	93	19	0	0.31†	0.27†	0.79†	0.72†	0.19
Brownsville			94	59	1	0.23†	0.16†	1.14	0.86†	0.21
			95	57	1	0.21†	0.09†	3.77	0.71†	0.50
Dallas	113	70	93	49	0	0.21†	0.18†	0.83†	0.68†	0.15
Dallas			94	58	0	0.22†	0.18†	1.00†	0.64†	0.17
			95	57	0	0.12†	0.10†	0.60†	0.44†	0.11
Ector	135	3	93	52	2	0.40†	0.35†	1.33	1.10	0.25
Odessa			94	59	1	0.34†	0.27†	1.24	1.03†	0.24
			95	59	1	0.23†	0.17†	1.34	1.02†	0.25
Ellis	139	7	93	55	1	0.15†	0.09†	1.38	0.80†	0.22
Midlothian			94	51	0	0.09†	0.06†	0.48†	0.46†	0.09
			95	58	0	0.06†	0.03†	0.41†	0.27†	0.07
El Paso	141	47	93	33	8	0.81†	0.76†	1.55	1.54	0.35
El Paso			94	58	9	0.58†	0.42†	2.25	1.73	0.46
			95	55	3	0.41†	0.34†	1.79	1.28	0.33
Galveston	167	53	92	9	0	0.29†	0.21†	0.88†	0.52†	0.28
Texas City			93	51	0	0.27†	0.22†	1.04†	0.81†	0.22
			94	51	1	0.32†	0.28†	1.39	1.01†	0.24
			95	47	0	0.19†	0.16†	0.81†	0.57†	0.17
Harris	201	24	95	7	0	0.08†	0.07†	0.14†	0.11†	0.04
Aldine										
Harris	201	26	92	7	1	0.93†	0.64†	3.63	0.85†	1.22
Channelview			93	49	17	0.95†	0.74†	5.93	2.30	0.92
			94	59	13	0.78†	0.59†	2.75	2.42	0.65
			95	55	6	0.56†	0.33†	4.72	2.19	0.75
Harris	201	64	93	43	2	0.52†	0.44†	2.24	1.22	0.37
Houston, Allendale			94	54	5	0.50†	0.37†	2.73	1.55	0.47
			95	53	0	0.28†	0.24†	0.86†	0.84†	0.22
Harris	201	803	92	1	0	0.12†		0.12†		
Houston, Haden			93	56	10	0.70†	0.55†	3.99	2.30	0.65
			94	58	8	0.87†	0.50†	11.89	5.65	1.66
			95	57	7	0.50†	0.37†	1.84	1.49	0.43
Harris	201	1035	92	8	2	0.60†	0.49†	1.45	1.38	0.57
Houston, Clinton			93	50	3	0.60†	0.51†	1.92	1.62	0.37
			94	58	4	0.56†	0.50†	1.34	1.21	0.29
			95	60	0	0.39†	0.37†	1.01†	0.92†	0.25

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Ethyl Benzene Data Summary (continued)
1992 - 1995

MDL = 1.07

24-Hour ESL = 400.00

Annual ESL = 100.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Jefferson Beaumont	245 9	92	7	0	0.04†	<.01	0.11†	0.08†	0.04
		93	56	0	0.24†	0.22†	0.97†	0.52†	0.15
		94	59	0	0.28†	0.26†	0.94†	0.86†	0.18
		95	61	0	0.34†	0.30†	0.93†	0.74†	0.20
Jefferson Port Arthur	245 11	92	7	0	0.07†	<.01	0.45†	0.03†	0.17
		93	60	1	0.26†	0.20†	1.12	0.70†	0.19
		94	57	1	0.26†	0.19†	1.77	0.79†	0.26
		95	58	1	0.17†	0.11†	2.50	0.74†	0.33
Jefferson Groves	245 14	93	18	5	0.82†	0.50†	4.25	1.56	0.97
		94	58	2	0.41†	0.29†	3.53	1.07	0.48
		95	53	0	0.21†	0.19†	0.65†	0.60†	0.15
Jefferson Port Neches	245 17	94	23	19	2.25	2.24	5.86	3.85	1.30
Nueces Corpus Christi	355 20	93	55	5	0.47†	0.32†	2.20	1.90	0.45
		94	52	1	0.28†	0.19†	2.41	0.74†	0.34
		95	53	1	0.24†	0.13†	3.66	1.06†	0.51
Orange West Orange	361 1001	94	27	0	0.23†	0.19†	0.55†	0.49†	0.13
		95	21	1	0.39†	0.22†	1.69	1.05†	0.39
Smith Winona	423 5	94	32	3	0.42†	0.24†	2.46	2.20	0.55
		95	18	0	0.11†	0.03†	0.67†	0.46†	0.19
Tarrant Grapevine	439 3002	94	15	0	0.25†	0.20†	0.72†	0.49†	0.16
		95	13	0	0.05†	0.04†	0.14†	0.10†	0.04
Tarrant Irving, DFW Airport	439 3004	94	9	2	0.55†	0.32†	1.55	1.22	0.51
		95	6	0	0.05†	0.05†	0.07†	0.05†	0.01
Travis Austin	453 17	94	21	0	0.25†	0.22†	0.52†	0.47†	0.12

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

n-Heptane Data Summary

1992 - 1995

MDL = 0.93

24-Hour ESL = 340.00

Annual ESL = 85.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.20†	0.20†	0.31†	0.26†	0.07
San Antonio			95	4	0	0.11†	0.10†	0.16†	0.11†	0.04
Brazoria	39	1003	94	14	0	0.10†	0.12†	0.29†	0.23†	0.09
Clute			95	62	0	0.10†	0.06†	0.41†	0.35†	0.10
Cameron	61	6	94	14	0	0.14†	0.12†	0.54†	0.35†	0.16
Brownsville			95	57	2	0.15†	0.06†	1.63	1.51	0.30
Dallas	113	70	94	14	0	0.16†	0.09†	0.65†	0.49†	0.20
Dallas			95	57	0	0.10†	0.08†	0.44†	0.33†	0.10
Ector	135	3	94	14	1	0.49†	0.54†	1.21	0.86†	0.37
Odessa			95	59	5	0.29†	0.14†	2.25	1.29	0.40
Ellis	139	7	94	12	0	0.10†	0.14†	0.19†	0.19†	0.08
Midlothian			95	58	0	0.07†	<.01	0.50†	0.22†	0.09
El Paso	141	47	94	14	2	0.51†	0.14†	3.22	1.48	0.88
El Paso			95	55	6	0.36†	0.27†	1.26	1.14	0.35
Galveston	167	53	94	11	0	0.15†	0.08†	0.44†	0.42†	0.17
Texas City			95	47	2	0.28†	0.20†	1.31	1.31	0.32
Harris	201	24	95	7	0	0.07†	0.10†	0.13†	0.12†	0.06
Aldine										
Harris	201	26	94	15	0	0.10†	0.10†	0.25†	0.22†	0.09
Channelview			95	55	1	0.14†	0.09†	1.21	0.79†	0.21
Harris	201	64	94	14	1	0.19†	0.13†	1.04	0.45†	0.28
Houston, Allendale			95	53	0	0.18†	0.13†	0.69†	0.57†	0.18
Harris	201	803	94	14	0	0.15†	0.16†	0.47†	0.43†	0.17
Houston, Haden			95	57	0	0.18†	0.17†	0.60†	0.56†	0.17
Harris	201	1035	94	14	0	0.27†	0.26†	0.78†	0.63†	0.23
Houston, Clinton			95	60	8	0.39†	0.31†	1.57	1.20	0.37
Jefferson	245	9	94	15	0	0.28†	0.30†	0.75†	0.50†	0.22
Beaumont			95	61	1	0.21†	0.19†	1.18	0.58†	0.20
Jefferson	245	11	94	14	0	0.17†	0.15†	0.50†	0.42†	0.18
Port Arthur			95	58	0	0.17†	0.13†	0.81†	0.58†	0.18
Jefferson	245	14	94	14	1	0.38†	0.20†	1.57	0.87†	0.44
Groves			95	53	6	0.36†	0.24†	2.06	1.44	0.42
Jefferson	245	17	94	13	0	0.19†	0.21†	0.49†	0.31†	0.14
Port Neches										
Nueces	355	20	94	14	1	0.48†	0.38†	2.75	0.83†	0.70
Corpus Christi			95	53	3	0.33†	0.22†	3.06	2.30	0.55
Orange	361	1001	94	15	0	0.11†	0.12†	0.25†	0.24†	0.09
West Orange			95	21	0	0.14†	0.14†	0.38†	0.38†	0.12
Smith	423	5	94	15	0	0.12†	0.14†	0.30†	0.27†	0.09
Winona			95	18	0	0.08†	0.04†	0.29†	0.22†	0.09
Tarrant	439	3002	94	1	0	<.01		<.01		
Grapevine			95	13	0	0.03†	0.01†	0.16†	0.05†	0.04
Tarrant	439	3004	94	3	0	<.01	<.01	<.01	<.01	0.00
Irving, DFW Airport			95	6	0	0.02†	0.01†	0.05†	0.04†	0.02
Travis	453	17	94	10	0	0.14†	0.15†	0.49†	0.25†	0.15
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

n-Hexane Data Summary
1992 - 1995

MDL = 0.20

24-Hour ESL = 200.00

Annual ESL = 50.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	8	0.74	0.65	2.30	0.83	0.64
San Antonio			95	4	4	0.47	0.52	0.54	0.52	0.12
Brazoria	39	1003	94	14	13	0.49	0.44	1.60	0.74	0.37
Clute			95	62	48	0.30	0.25	0.85	0.81	0.24
Cameron	61	6	94	14	10	0.42	0.40	1.34	1.07	0.40
Brownsville			95	57	32	0.39	0.13	7.70	1.55	1.03
Dallas	113	70	94	14	13	0.64	0.51	1.61	1.09	0.38
Dallas			95	57	43	0.34	0.24	2.08	1.95	0.40
Ector	135	3	94	14	13	1.04	0.83	2.66	2.30	0.83
Odessa			95	59	54	0.58	0.44	3.04	2.78	0.57
Ellis	139	7	94	12	12	0.39	0.41	0.58	0.55	0.15
Midlothian			95	58	26	0.23	0.07†	4.85	0.76	0.65
El Paso	141	47	94	14	14	6.08	1.44	35.39	30.97	11.58
El Paso			95	55	53	2.46	1.36	14.36	10.33	2.83
Galveston	167	53	94	11	11	0.78	0.77	1.87	1.55	0.54
Texas City			95	47	46	0.84	0.76	2.03	1.94	0.57
Harris	201	24	95	7	7	0.52	0.40	0.83	0.80	0.21
Aldine										
Harris	201	26	94	15	14	0.52	0.33	1.51	1.05	0.43
Channelview			95	55	52	0.73	0.62	2.82	2.53	0.55
Harris	201	64	94	14	13	1.31	0.59	6.73	2.43	1.71
Houston, Allendale			95	53	49	0.81	0.54	3.60	2.74	0.74
Harris	201	803	94	14	14	1.61	0.58	7.40	6.98	2.40
Houston, Haden			95	57	52	0.88	0.78	3.29	2.92	0.63
Harris	201	1035	94	14	14	1.48	1.18	4.87	2.70	1.24
Houston, Clinton			95	60	59	1.59	1.33	7.95	3.89	1.23
Jefferson	245	9	94	15	15	2.24	1.83	7.15	3.21	1.53
Beaumont			95	61	58	1.11	0.98	4.78	3.43	0.79
Jefferson	245	11	94	14	13	0.84	0.85	2.01	1.64	0.57
Port Arthur			95	58	56	0.98	0.78	4.07	3.51	0.74
Jefferson	245	14	94	14	14	1.79	1.20	6.25	3.94	1.76
Groves			95	53	47	1.36	1.10	6.46	4.47	1.26
Jefferson	245	17	94	13	13	1.02	0.80	2.33	2.11	0.69
Port Neches										
Nueces	355	20	94	14	10	1.29	1.14	3.82	2.88	1.16
Corpus Christi			95	53	50	1.99	1.17	10.38	7.77	2.13
Orange	361	1001	94	15	14	0.81	0.51	4.13	1.41	0.98
West Orange			95	21	17	1.12	0.42	8.83	2.62	1.93
Smith	423	5	94	15	14	0.58	0.37	3.65	0.64	0.87
Winona			95	18	14	0.35	0.26	1.22	1.03	0.35
Tarrant	439	3002	94	1	1	0.48		0.48		
Grapevine			95	13	8	0.16	0.14	0.61	0.29	0.17
Tarrant	439	3004	94	3	3	0.53	0.63	0.78	0.63	0.31
Irving, DFW Airport			95	6	4	0.17	0.18	0.35	0.19	0.11
Travis	453	17	94	10	10	1.48	1.47	2.68	2.47	0.81
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

c-2-Hexene Data Summary
1992 - 1995

MDL = 0.41

24-Hour ESL = 1,864.00

Annual ESL = 466.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	<.01	<.01	<.01	<.01	0.00
San Antonio			95	4	0	0.01†	0.01†	0.02†	0.01†	0.01
Brazoria	39	1003	94	14	0	<.01	<.01	<.01	<.01	0.00
Clute			95	62	0	0.02†	<.01	0.28†	0.10†	0.04
Cameron	61	6	94	14	0	<.01	<.01	<.01	<.01	0.00
Brownsville			95	57	0	0.01†	<.01	0.13†	0.08†	0.02
Dallas	113	70	94	14	0	<.01	<.01	<.01	<.01	0.00
Dallas			95	57	0	0.01†	<.01	0.07†	0.03†	0.01
Ector	135	3	94	14	0	<.01	<.01	<.01	<.01	0.00
Odessa			95	59	0	0.01†	<.01	0.09†	0.07†	0.01
Ellis	139	7	94	12	0	<.01	<.01	<.01	<.01	0.00
Midlothian			95	58	0	0.01†	<.01	0.03†	0.01†	0.00
El Paso	141	47	94	14	0	<.01	<.01	<.01	<.01	0.00
El Paso			95	55	0	0.04†	<.01	0.28†	0.26†	0.07
Galveston	167	53	94	11	0	<.01	<.01	<.01	<.01	0.00
Texas City			95	47	1	0.04†	<.01	1.07	0.31†	0.16
Harris	201	24	95	7	0	0.01†	0.01†	0.03†	0.01†	0.01
Aldine										
Harris	201	26	94	15	0	<.01	<.01	<.01	<.01	0.00
Channelview			95	55	0	0.01†	<.01	0.11†	0.09†	0.02
Harris	201	64	94	14	0	<.01	<.01	<.01	<.01	0.00
Houston, Allendale			95	53	0	0.03†	<.01	0.23†	0.22†	0.05
Harris	201	803	94	14	0	<.01	<.01	<.01	<.01	0.00
Houston, Haden			95	57	0	0.02†	<.01	0.28†	0.22†	0.05
Harris	201	1035	94	14	0	<.01	<.01	<.01	<.01	0.00
Houston, Clinton			95	60	0	0.03†	<.01	0.24†	0.24†	0.06
Jefferson	245	9	94	15	0	<.01	<.01	<.01	<.01	0.00
Beaumont			95	61	0	0.01†	<.01	0.17†	0.10†	0.03
Jefferson	245	11	94	14	0	<.01	<.01	<.01	<.01	0.00
Port Arthur			95	58	1	0.02†	<.01	0.71	0.11†	0.09
Jefferson	245	14	94	14	0	<.01	<.01	<.01	<.01	0.00
Groves			95	53	0	0.03†	<.01	0.28†	0.26†	0.06
Jefferson	245	17	94	13	0	<.01	<.01	<.01	<.01	0.00
Port Neches										
Nueces	355	20	94	14	0	<.01	<.01	<.01	<.01	0.00
Corpus Christi			95	53	0	0.03†	<.01	0.35†	0.27†	0.06
Orange	361	1001	94	15	0	<.01	<.01	<.01	<.01	0.00
West Orange			95	21	0	0.01†	<.01	0.02†	<.01	0.00
Smith	423	5	94	15	0	<.01	<.01	<.01	<.01	0.00
Winona			95	18	0	0.01†	<.01	0.03†	<.01	0.01
Tarrant	439	3002	94	1	0	<.01	<.01	<.01	<.01	0.00
Grapevine			95	13	0	0.01†	<.01	0.01†	<.01	0.00
Tarrant	439	3004	94	3	0	<.01	<.01	<.01	<.01	0.00
Irving, DFW Airport			95	6	0	0.01†	<.01	0.01†	<.01	0.00
Travis	453	17	94	10	0	<.01	<.01	<.01	<.01	0.00
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

t-2-Hexene Data Summary
1992 - 1995

MDL = 0.29

24-Hour ESL = 1,864.00

Annual ESL = 466.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.02†	<.01	0.09†	0.06†	0.03
San Antonio			95	4	0	0.01†	0.01†	0.02†	0.01†	0.01
Brazoria	39	1003	94	14	0	0.01†	<.01	0.04†	0.04†	0.01
Clute			95	62	0	0.01†	<.01	0.09†	0.01†	0.01
Cameron	61	6	94	14	0	0.01†	<.01	0.08†	0.04†	0.02
Brownsville			95	57	0	0.02†	<.01	0.19†	0.11†	0.03
Dallas	113	70	94	14	0	0.02†	<.01	0.20†	0.05†	0.05
Dallas			95	57	0	0.02†	<.01	0.13†	0.12†	0.03
Ector	135	3	94	14	0	0.01†	<.01	0.06†	0.06†	0.02
Odessa			95	59	2	0.02†	<.01	0.30	0.30	0.06
Ellis	139	7	94	12	0	0.01†	<.01	0.02†	0.01†	0.00
Midlothian			95	58	0	0.01†	<.01	0.06†	<.01	0.01
El Paso	141	47	94	14	2	0.22†	0.02†	1.75	0.61	0.47
El Paso			95	55	2	0.05†	<.01	0.56	0.39	0.10
Galveston	167	53	94	11	0	0.01†	<.01	0.07†	<.01	0.02
Texas City			95	47	1	0.01†	<.01	0.36	0.07†	0.05
Harris	201	24	95	7	0	0.01†	0.01†	0.03†	0.02†	0.01
Aldine										
Harris	201	26	94	15	0	0.01†	<.01	0.09†	0.04†	0.02
Channelview			95	55	0	0.01†	<.01	0.01†	0.01†	0.00
Harris	201	64	94	14	1	0.06†	<.01	0.35	0.23†	0.11
Houston, Allendale			95	53	2	0.03†	<.01	0.33	0.29	0.07
Harris	201	803	94	14	0	0.04†	<.01	0.25†	0.17†	0.08
Houston, Haden			95	57	0	0.02†	<.01	0.23†	0.18†	0.05
Harris	201	1035	94	14	1	0.07†	<.01	0.61	0.18†	0.16
Houston, Clinton			95	60	1	0.03†	<.01	0.29	0.26†	0.06
Jefferson	245	9	94	15	0	0.03†	<.01	0.17†	0.15†	0.05
Beaumont			95	61	0	0.01†	<.01	0.03†	0.02†	0.00
Jefferson	245	11	94	14	0	0.02†	<.01	0.12†	0.03†	0.03
Port Arthur			95	58	1	0.02†	<.01	0.70	0.08†	0.09
Jefferson	245	14	94	14	0	0.02†	<.01	0.13†	0.09†	0.04
Groves			95	53	0	0.02†	<.01	0.20†	0.17†	0.04
Jefferson	245	17	94	13	0	0.01†	<.01	0.05†	0.01†	0.01
Nueces	355	20	94	14	0	0.02†	<.01	0.09†	0.05†	0.03
Corpus Christi			95	53	1	0.03†	<.01	0.86	0.13†	0.12
Orange	361	1001	94	15	0	0.02†	<.01	0.13†	0.02†	0.03
West Orange			95	21	1	0.05†	<.01	0.63	0.21†	0.14
Smith	423	5	94	15	0	0.01†	<.01	0.01†	<.01	0.00
Winona			95	18	0	0.01†	<.01	0.06†	0.04†	0.02
Tarrant	439	3002	94	1	0	0.02†		0.02†		
Grapevine			95	13	0	0.01†	<.01	0.02†	0.01†	0.00
Tarrant	439	3004	94	3	0	0.03†	0.03†	0.03†	0.03†	0.01
Irving, DFW Airport			95	6	0	0.01†	<.01	0.04†	<.01	0.01
Travis	453	17	94	10	0	0.04†	0.03†	0.10†	0.09†	0.04
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

Isobutane Data Summary

1992 - 1995

MDL = 1.73

24-Hour ESL = 3,200.00

Annual ESL = 800.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	5	1.86	1.94	2.83	2.72	0.77
San Antonio			95	4	3	7.16	5.12	16.88	5.95	6.73
Brazoria	39	1003	94	14	4	1.86	1.46†	6.09	4.40	1.67
Clute			95	62	27	1.88	1.39†	6.59	5.30	1.40
Cameron	61	6	94	14	5	1.48†	1.16†	4.52	3.61	1.35
Brownsville			95	57	8	0.90†	0.39†	7.79	4.97	1.30
Dallas	113	70	94	14	4	1.48†	1.24†	4.91	2.54	1.17
Dallas			95	57	9	1.10†	0.76†	4.59	4.57	1.01
Ector	135	3	94	14	10	3.65	2.95	8.14	6.81	2.30
Odessa			95	59	41	3.13	2.51	20.08	10.39	2.96
Ellis	139	7	94	12	1	0.94†	0.96†	2.10	1.64†	0.61
Midlothian			95	58	1	0.68†	0.66†	1.98	1.46†	0.41
El Paso	141	47	94	14	8	7.10	2.80	34.70	27.98	10.66
El Paso			95	55	36	3.67	2.37	18.34	14.76	3.45
Galveston	167	53	94	11	8	3.12	2.34	5.93	5.73	1.73
Texas City			95	47	40	4.47	3.93	14.80	13.56	3.00
Harris	201	24	95	7	6	4.02	2.75	9.91	7.06	3.21
Aldine										
Harris	201	26	94	15	12	3.67	3.36	8.51	6.87	2.16
Channelview			95	55	44	4.82	4.08	14.72	12.76	3.30
Harris	201	64	94	14	9	5.39	3.33	19.56	12.42	5.41
Houston, Allendale			95	53	37	5.06	2.46	18.21	18.04	5.30
Harris	201	803	94	14	9	3.17	3.32	6.34	5.21	1.88
Houston, Haden			95	57	52	6.05	4.25	23.56	22.12	5.12
Harris	201	1035	94	14	10	3.85	4.19	8.08	6.86	2.51
Houston, Clinton			95	60	52	4.60	3.30	21.72	16.27	3.87
Jefferson	245	9	94	15	12	3.90	3.64	8.63	7.20	2.27
Beaumont			95	61	55	5.85	3.69	52.23	33.03	8.20
Jefferson	245	11	94	14	12	3.95	3.58	9.03	8.04	2.59
Port Arthur			95	58	57	6.23	4.93	21.96	21.79	4.31
Jefferson	245	14	94	14	13	16.05	11.80	45.70	40.45	14.76
Groves			95	53	50	17.74	7.42	225.60	53.49	31.96
Jefferson	245	17	94	13	10	2.75	2.31	6.46	5.45	1.73
Nueces	355	20	94	14	10	5.22	3.05	13.44	10.56	4.54
Corpus Christi			95	53	36	4.70	3.09	41.74	16.01	6.34
Orange	361	1001	94	15	10	2.77	2.36	6.60	4.70	1.58
West Orange			95	21	16	5.02	3.18	20.33	11.49	4.62
Smith	423	5	94	15	6	1.51†	1.63†	3.12	2.93	0.93
Winona			95	18	8	2.30	1.56†	8.91	5.56	2.18
Tarrant	439	3002	94	1	0	<.01		<.01		
Grapevine			95	13	1	1.17†	0.98†	3.55	1.59†	0.82
Tarrant	439	3004	94	3	0	0.45†	0.36†	0.70†	0.36†	0.22
Irving, DFW Airport			95	6	1	2.73	1.35†	10.46	1.59†	3.80
Travis	453	17	94	10	3	1.55†	1.27†	4.48	1.88	1.17
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

Isopentane Data Summary

1992 - 1995

MDL = 0.48

24-Hour ESL = 400.00

Annual ESL = 100.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	9	3.51	3.38	5.65	4.49	1.10
San Antonio			95	4	3	4.31	4.86	7.54	7.03	3.61
Brazoria	39	1003	94	14	9	1.36	1.17	5.14	4.06	1.53
Clute			95	62	55	1.41	1.32	2.90	2.89	0.83
Cameron	61	6	94	14	11	2.47	1.75	9.98	7.19	2.89
Brownsville			95	57	45	2.04	1.30	9.95	9.80	2.36
Dallas	113	70	94	14	13	2.65	1.72	8.35	6.89	2.45
Dallas			95	57	54	2.16	1.26	15.42	15.11	3.09
Ector	135	3	94	14	11	2.75	1.64	8.59	5.79	2.62
Odessa			95	59	59	2.86	2.26	10.60	7.70	1.90
Ellis	139	7	94	12	11	1.13	1.24	1.98	1.53	0.48
Midlothian			95	58	39	0.70	0.61	2.20	2.18	0.50
El Paso	141	47	94	14	11	21.49	3.83	215.50	23.50	56.43
El Paso			95	55	55	15.30	8.96	71.15	59.66	17.20
Galveston	167	53	94	11	10	3.35	3.28	7.14	6.93	2.55
Texas City			95	47	47	4.77	3.76	11.64	11.11	3.24
Harris	201	24	95	7	7	4.93	3.34	9.57	8.97	3.36
Aldine										
Harris	201	26	94	15	12	2.07	1.60	7.27	5.50	2.03
Channelview			95	55	54	3.05	2.58	10.49	10.30	2.07
Harris	201	64	94	14	13	6.87	3.32	37.75	11.29	9.60
Houston, Allendale			95	53	52	4.73	3.15	23.78	22.37	5.19
Harris	201	803	94	14	13	3.83	2.98	8.87	7.20	2.61
Houston, Haden			95	57	57	5.24	3.71	41.31	14.91	5.77
Harris	201	1035	94	14	14	6.47	7.19	15.70	10.70	4.41
Houston, Clinton			95	60	59	5.71	4.81	15.18	14.77	3.35
Jefferson	245	9	94	15	13	4.62	3.46	23.53	6.63	5.54
Beaumont			95	61	57	4.44	3.66	17.15	14.60	3.24
Jefferson	245	11	94	14	11	3.29	2.78	8.38	7.91	2.88
Port Arthur			95	58	58	6.50	4.57	24.44	21.64	5.09
Jefferson	245	14	94	14	12	4.73	3.90	16.99	8.52	4.66
Groves			95	53	53	7.75	5.88	24.03	19.83	5.45
Jefferson	245	17	94	13	11	2.12	1.90	6.06	3.35	1.69
Port Neches										
Nueces	355	20	94	14	11	6.07	4.16	22.81	13.98	6.55
Corpus Christi			95	53	53	6.52	3.50	67.94	20.37	9.92
Orange	361	1001	94	15	13	3.29	3.52	8.15	7.04	2.40
West Orange			95	21	21	6.18	4.45	23.90	23.73	6.30
Smith	423	5	94	15	11	1.27	1.45	3.00	2.28	0.93
Winona			95	18	17	1.93	1.53	7.12	4.03	1.73
Tarrant	439	3002	94	1	1	2.04		2.04		
Grapevine			95	13	13	2.12	1.50	8.94	2.25	2.08
Tarrant	439	3004	94	3	2	1.06	1.08	2.08	1.08	1.04
Irving, DFW Airport			95	6	6	1.87	1.79	3.06	1.87	0.64
Travis	453	17	94	10	8	4.45	3.63	16.18	7.67	4.74
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

Isoprene Data Summary

1992 - 1995

MDL = 0.23

24-Hour ESL = 56.00

Annual ESL = 14.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.07†	0.07†	0.12†	0.10†	0.03
San Antonio			95	4	0	0.03†	0.03†	0.06†	0.04†	0.02
Brazoria	39	1003	94	14	0	0.07†	0.05†	0.18†	0.16†	0.06
Clute			95	62	2	0.07†	0.01†	1.26	0.35	0.17
Cameron	61	6	94	14	0	0.06†	0.03†	0.22†	0.20†	0.07
Brownsville			95	57	0	0.04†	<.01	0.19†	0.13†	0.04
Dallas	113	70	94	14	0	0.08†	0.07†	0.22†	0.18†	0.07
Dallas			95	57	7	0.08†	<.01	0.63	0.61	0.15
Ector	135	3	94	14	0	0.03†	0.01†	0.13†	0.05†	0.04
Odessa			95	59	0	0.01†	<.01	0.18†	0.16†	0.03
Ellis	139	7	94	12	0	0.02†	<.01	0.05†	0.05†	0.02
Midlothian			95	58	3	0.04†	<.01	1.51	0.42	0.21
El Paso	141	47	94	14	4	0.18†	0.11†	0.78	0.33	0.20
El Paso			95	55	4	0.09†	0.07†	0.49	0.38	0.09
Galveston	167	53	94	11	2	0.17†	0.11†	0.60	0.31	0.17
Texas City			95	47	6	0.34	0.05†	10.16	1.04	1.48
Harris	201	24	95	7	0	0.07†	0.04†	0.17†	0.11†	0.05
Aldine										
Harris	201	26	94	15	3	0.19†	0.13†	0.80	0.44	0.20
Channelview			95	55	23	0.28	0.13†	1.62	1.32	0.36
Harris	201	64	94	14	5	0.24	0.14†	1.08	0.54	0.29
Houston, Allendale			95	53	18	0.28	0.15†	1.84	1.48	0.40
Harris	201	803	94	14	4	0.17†	0.11†	0.75	0.28	0.19
Houston, Haden			95	57	21	0.24	0.14†	2.40	1.04	0.37
Harris	201	1035	94	14	5	0.22†	0.15†	1.04	0.38	0.26
Houston, Clinton			95	60	32	0.39	0.24	2.78	1.94	0.48
Jefferson	245	9	94	15	5	0.20†	0.08†	1.07	0.61	0.30
Beaumont			95	61	22	0.19†	0.07†	1.03	1.00	0.26
Jefferson	245	11	94	14	2	0.16†	0.09†	1.03	0.28	0.26
Port Arthur			95	58	14	0.22†	0.08†	2.33	1.39	0.40
Jefferson	245	14	94	14	0	0.06†	0.04†	0.18†	0.10†	0.05
Groves			95	53	10	0.17†	0.04†	1.60	0.84	0.30
Jefferson	245	17	94	13	1	0.09†	0.05†	0.30	0.22†	0.10
Nueces	355	20	94	14	0	0.04†	0.03†	0.09†	0.08†	0.03
Corpus Christi			95	53	3	0.06†	<.01	0.80	0.25	0.12
Orange	361	1001	94	15	2	0.11†	0.07†	0.35	0.32	0.10
West Orange			95	21	2	0.10†	0.05†	0.43	0.28	0.11
Smith	423	5	94	15	2	0.11†	<.01	0.81	0.48	0.23
Winona			95	18	2	0.06†	0.01†	0.33	0.29	0.10
Tarrant	439	3002	94	1	0	0.11†		0.11†		
Grapevine			95	13	0	0.02†	<.01	0.14†	0.02†	0.04
Tarrant	439	3004	94	3	0	0.06†	0.06†	0.06†	0.06†	0.01
Irving, DFW Airport			95	6	0	0.01†	<.01	0.04†	0.01†	0.01
Travis	453	17	94	10	2	0.16†	0.16†	0.29	0.28	0.07
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

3-Methyl-1-Butene Data Summary

1992 - 1995

MDL = 0.72

24-Hour ESL = 3,200.00

Annual ESL = 800.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.03†	0.03†	0.05†	0.04†	0.01
San Antonio			95	4	0	0.04†	0.04†	0.07†	0.05†	0.03
Brazoria	39	1003	94	14	0	0.02†	0.01†	0.04†	0.03†	0.01
Clute			95	62	0	0.01†	<.01	0.03†	0.03†	0.01
Cameron	61	6	94	14	0	0.03†	<.01	0.09†	0.08†	0.03
Brownsville			95	57	0	0.02†	<.01	0.09†	0.08†	0.02
Dallas	113	70	94	14	0	0.03†	0.02†	0.09†	0.09†	0.03
Dallas			95	57	0	0.02†	<.01	0.12†	0.10†	0.03
Ector	135	3	94	14	0	0.02†	<.01	0.09†	0.04†	0.02
Odessa			95	59	0	0.01†	<.01	0.08†	0.06†	0.01
Ellis	139	7	94	12	0	0.01†	<.01	0.02†	0.01†	0.00
Midlothian			95	58	0	0.01†	<.01	0.02†	0.02†	0.00
El Paso	141	47	94	14	1	0.15†	0.07†	0.81	0.50†	0.23
El Paso			95	55	0	0.06†	0.04†	0.34†	0.21†	0.06
Galveston	167	53	94	11	0	0.03†	0.02†	0.08†	0.07†	0.03
Texas City			95	47	0	0.04†	0.01†	0.26†	0.19†	0.06
Harris	201	24	95	7	0	0.03†	0.02†	0.07†	0.06†	0.03
Aldine										
Harris	201	26	94	15	0	0.03†	0.02†	0.12†	0.08†	0.03
Channelview			95	55	0	0.02†	<.01	0.14†	0.09†	0.02
Harris	201	64	94	14	0	0.13†	0.04†	0.68†	0.51†	0.20
Houston, Allendale			95	53	1	0.05†	0.02†	0.73	0.28†	0.11
Harris	201	803	94	14	0	0.03†	0.02†	0.09†	0.07†	0.03
Houston, Haden			95	57	0	0.04†	0.02†	0.38†	0.15†	0.06
Harris	201	1035	94	14	0	0.06†	0.04†	0.21†	0.16†	0.07
Houston, Clinton			95	60	0	0.07†	0.03†	0.36†	0.31†	0.08
Jefferson	245	9	94	15	0	0.02†	0.02†	0.06†	0.06†	0.02
Beaumont			95	61	0	0.03†	0.01†	0.30†	0.21†	0.05
Jefferson	245	11	94	14	1	0.10†	0.04†	0.93	0.13†	0.24
Port Arthur			95	58	0	0.04†	0.02†	0.18†	0.15†	0.04
Jefferson	245	14	94	14	0	0.06†	0.03†	0.40†	0.10†	0.10
Groves			95	53	0	0.05†	0.02†	0.67†	0.23†	0.10
Jefferson	245	17	94	13	0	0.03†	0.02†	0.16†	0.07†	0.04
Port Neches										
Nueces	355	20	94	14	0	0.04†	0.02†	0.18†	0.07†	0.05
Corpus Christi			95	53	0	0.04†	<.01	0.59†	0.29†	0.09
Orange	361	1001	94	15	0	0.04†	0.03†	0.12†	0.09†	0.03
West Orange			95	21	0	0.06†	0.04†	0.38†	0.19†	0.09
Smith	423	5	94	15	0	0.02†	<.01	0.25†	0.03†	0.06
Winona			95	18	0	0.01†	<.01	0.02†	0.01†	0.00
Tarrant	439	3002	94	1	0	0.02†		0.02†		
Grapevine			95	13	0	0.01†	<.01	0.06†	0.02†	0.02
Tarrant	439	3004	94	3	0	0.02†	0.03†	0.03†	0.03†	0.01
Irving, DFW Airport			95	6	0	0.01†	<.01	0.02†	0.01†	0.01
Travis	453	17	94	10	0	0.05†	0.03†	0.12†	0.07†	0.03
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

2-Methyl-2-Butene Data Summary

1992 - 1995

MDL = 0.40

24-Hour ESL = 3,200.00

Annual ESL = 800.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	2	0.26†	0.26†	0.44	0.41	0.14
San Antonio			95	4	1	0.24†	0.22†	0.42	0.27†	0.14
Brazoria	39	1003	94	14	0	0.09†	0.08†	0.22†	0.21†	0.08
Clute			95	62	1	0.05†	0.02†	0.43	0.28†	0.07
Cameron	61	6	94	14	3	0.27†	0.15†	0.91	0.86	0.31
Brownsville			95	57	3	0.10†	0.05†	0.57	0.44	0.13
Dallas	113	70	94	14	3	0.24†	0.14†	0.82	0.70	0.26
Dallas			95	57	4	0.12†	0.02†	1.13	1.08	0.25
Ector	135	3	94	14	3	0.30†	0.27†	0.91	0.47	0.21
Odessa			95	59	7	0.17†	0.13†	1.14	0.66	0.20
Ellis	139	7	94	12	0	0.02†	<.01	0.10†	0.07†	0.03
Midlothian			95	58	0	0.01†	<.01	0.14†	0.09†	0.02
El Paso	141	47	94	14	9	1.17	0.60	6.49	2.31	1.67
El Paso			95	55	23	0.48	0.32†	2.95	1.35	0.51
Galveston	167	53	94	11	3	0.25†	0.11†	0.76	0.67	0.27
Texas City			95	47	12	0.34†	0.10†	2.23	1.47	0.51
Harris	201	24	95	7	1	0.21†	0.10†	0.51	0.38†	0.19
Aldine										
Harris	201	26	94	15	2	0.24†	0.12†	1.15	0.55	0.29
Channelview			95	55	3	0.12†	0.09†	0.78	0.71	0.16
Harris	201	64	94	14	6	0.79	0.30†	3.76	1.87	1.03
Houston, Allendale			95	53	15	0.36†	0.18†	4.18	1.62	0.65
Harris	201	803	94	14	6	0.42	0.22†	1.14	0.78	0.34
Houston, Haden			95	57	10	0.28†	0.14†	3.12	2.27	0.53
Harris	201	1035	94	14	7	0.56	0.42	1.96	1.63	0.58
Houston, Clinton			95	60	25	0.44	0.38†	1.49	1.45	0.40
Jefferson	245	9	94	15	1	0.10†	<.01	0.44	0.29†	0.14
Beaumont			95	61	5	0.10†	<.01	0.80	0.73	0.18
Jefferson	245	11	94	14	3	0.26†	0.18†	0.99	0.48	0.26
Port Arthur			95	58	13	0.25†	0.20†	1.00	0.96	0.27
Jefferson	245	14	94	14	6	0.55	0.36†	3.70	0.65	0.93
Groves			95	53	15	0.51	0.27†	4.54	2.70	0.80
Jefferson	245	17	94	13	0	0.06†	<.01	0.30†	0.21†	0.09
Nueces	355	20	94	14	3	0.28†	0.17†	1.25	0.52	0.31
Corpus Christi			95	53	10	0.33†	0.17†	4.92	1.80	0.71
Orange	361	1001	94	15	3	0.33†	0.31†	0.83	0.80	0.25
West Orange			95	21	12	0.59	0.47	2.78	1.61	0.65
Smith	423	5	94	15	0	0.03†	<.01	0.15†	0.09†	0.04
Winona			95	18	0	0.02†	<.01	0.19†	0.07†	0.05
Tarrant	439	3002	94	1	0	<.01		<.01		
Grapevine			95	13	1	0.05†	<.01	0.48	0.06†	0.13
Tarrant	439	3004	94	3	0	0.10†	0.12†	0.16†	0.12†	0.08
Irving, DFW Airport			95	6	0	0.04†	0.01†	0.14†	0.09†	0.06
Travis	453	17	94	10	3	0.39†	0.32†	1.06	0.65	0.29
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

Methylcyclohexane Data Summary

1992 - 1995

MDL = 0.31

24-Hour ESL = 1,600.00

Annual ESL = 400.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	1	0.14†	0.13†	0.48	0.21†	0.15
San Antonio			95	4	0	0.04†	0.05†	0.08†	0.06†	0.03
Brazoria	39	1003	94	14	1	0.15†	0.14†	0.35	0.26†	0.09
Clute			95	62	1	0.07†	0.04†	0.44	0.30†	0.09
Cameron	61	6	94	14	1	0.08†	0.01†	0.32	0.29†	0.11
Brownsville			95	57	2	0.08†	<.01	1.94	0.49	0.26
Dallas	113	70	94	14	2	0.13†	0.12†	0.41	0.33	0.12
Dallas			95	57	0	0.04†	<.01	0.30†	0.18†	0.06
Ector	135	3	94	14	7	0.38	0.32	0.90	0.64	0.24
Odessa			95	59	9	0.15†	0.09†	0.77	0.72	0.18
Ellis	139	7	94	12	0	0.06†	0.06†	0.16†	0.12†	0.05
Midlothian			95	58	1	0.04†	<.01	0.45	0.25†	0.07
El Paso	141	47	94	14	7	0.85	0.35	4.33	3.10	1.28
El Paso			95	55	20	0.27†	0.19†	0.97	0.95	0.27
Galveston	167	53	94	11	5	0.32	0.25†	0.76	0.64	0.25
Texas City			95	47	19	0.54	0.16†	13.14	1.31	1.90
Harris	201	24	95	7	2	0.22†	<.01	0.65	0.64	0.30
Aldine										
Harris	201	26	94	15	5	0.29†	0.16†	1.23	0.75	0.31
Channelview			95	55	6	0.16†	0.10†	1.28	0.70	0.22
Harris	201	64	94	14	5	0.35	0.24†	0.90	0.72	0.26
Houston, Allendale			95	53	9	0.17†	0.14†	0.59	0.50	0.15
Harris	201	803	94	14	5	0.26†	0.18†	0.85	0.57	0.25
Houston, Haden			95	57	16	0.20†	0.21†	0.71	0.68	0.17
Harris	201	1035	94	14	9	0.53	0.38	2.00	1.11	0.51
Houston, Clinton			95	60	28	0.30†	0.28†	0.82	0.81	0.23
Jefferson	245	9	94	15	6	0.22†	0.27†	0.48	0.44	0.17
Beaumont			95	61	51	1.13	0.76	11.13	4.27	1.53
Jefferson	245	11	94	14	4	0.25†	0.21†	0.66	0.46	0.18
Port Arthur			95	58	14	0.19†	0.18†	0.77	0.76	0.19
Jefferson	245	14	94	14	5	0.32	0.23†	1.26	0.81	0.35
Groves			95	53	22	0.31	0.20†	1.36	1.21	0.34
Jefferson	245	17	94	13	1	0.19†	0.16†	0.50	0.26†	0.11
Nueces	355	20	94	14	10	0.69	0.51	2.45	1.69	0.65
Corpus Christi			95	53	19	0.34	0.16†	3.68	2.12	0.61
Orange	361	1001	94	15	1	0.15†	0.14†	0.38	0.29†	0.10
West Orange			95	21	2	0.13†	0.10†	0.37	0.34	0.11
Smith	423	5	94	15	0	0.12†	0.09†	0.26†	0.18†	0.07
Winona			95	18	1	0.31	0.05†	4.60	0.17†	1.07
Tarrant	439	3002	94	1	0	0.13†		0.13†		
Grapevine			95	13	0	0.02†	0.01†	0.09†	0.06†	0.03
Tarrant	439	3004	94	3	0	0.04†	<.01	0.11†	<.01	0.06
Irving, DFW Airport			95	6	0	0.05†	0.01†	0.18†	0.10†	0.07
Travis	453	17	94	10	1	0.12†	0.13†	0.43	0.17†	0.13
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

Methylcyclopentane Data Summary

1992 - 1995

MDL = 0.29

24-Hour ESL = 300.00

Annual ESL = 75.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	6	0.41	0.32	1.44	0.64	0.44
San Antonio			95	4	1	0.25†	0.26†	0.29	0.27†	0.05
Brazoria	39	1003	94	14	3	0.20†	0.19†	0.62	0.42	0.17
Clute			95	62	3	0.10†	0.06†	0.52	0.43	0.11
Cameron	61	6	94	14	3	0.23†	0.21†	0.69	0.68	0.22
Brownsville			95	57	7	0.28†	0.05†	9.87	0.57	1.30
Dallas	113	70	94	14	5	0.31	0.23†	0.85	0.69	0.22
Dallas			95	57	6	0.13†	0.11†	0.68	0.62	0.15
Ector	135	3	94	14	10	0.62	0.54	1.45	1.24	0.43
Odessa			95	59	20	0.27†	0.19†	1.65	1.56	0.34
Ellis	139	7	94	12	0	0.12†	0.14†	0.23†	0.19†	0.07
Midlothian			95	58	1	0.11†	<.01	3.46	0.27†	0.45
El Paso	141	47	94	14	11	4.08	0.93	21.94	19.37	7.14
El Paso			95	55	46	1.41	0.74	6.74	6.28	1.57
Galveston	167	53	94	11	5	0.34	0.24†	0.77	0.69	0.23
Texas City			95	47	23	0.37	0.28†	1.59	1.29	0.39
Harris	201	24	95	7	1	0.15†	0.18†	0.30	0.21†	0.11
Aldine										
Harris	201	26	94	15	5	0.31	0.17†	1.04	0.87	0.29
Channelview			95	55	21	0.26†	0.23†	1.58	1.09	0.27
Harris	201	64	94	14	8	0.59	0.37	2.23	1.04	0.57
Houston, Allendale			95	53	24	0.31	0.26†	1.13	1.04	0.28
Harris	201	803	94	14	8	0.67	0.41	2.34	2.04	0.70
Houston, Haden			95	57	28	0.32	0.28†	1.35	1.16	0.29
Harris	201	1035	94	14	10	0.74	0.57	2.81	1.42	0.70
Houston, Clinton			95	60	44	0.52	0.52	1.91	1.16	0.36
Jefferson	245	9	94	15	15	0.81	0.68	2.32	1.10	0.46
Beaumont			95	61	40	0.41	0.38	1.48	0.94	0.30
Jefferson	245	11	94	14	9	0.45	0.45	1.05	0.82	0.29
Port Arthur			95	58	30	0.41	0.31	3.89	2.12	0.59
Jefferson	245	14	94	14	9	0.66	0.47	2.53	1.26	0.66
Groves			95	53	38	0.55	0.40	2.97	2.08	0.54
Jefferson	245	17	94	13	9	0.43	0.34	0.80	0.77	0.25
Nueces	355	20	94	14	10	0.72	0.53	3.07	1.45	0.81
Corpus Christi			95	53	47	1.08	0.87	5.53	3.28	0.97
Orange	361	1001	94	15	7	0.60	0.25†	4.69	0.97	1.15
West Orange			95	21	9	0.44	0.20†	3.22	1.01	0.71
Smith	423	5	94	15	3	0.43	0.18†	3.77	0.58	0.93
Winona			95	18	2	0.11†	0.08†	0.36	0.29	0.11
Tarrant	439	3002	94	1	0	0.23†		0.23†		
Grapevine			95	13	0	0.03†	<.01	0.12†	0.07†	0.04
Tarrant	439	3004	94	3	2	0.58	0.68	0.93	0.68	0.41
Irving, DFW Airport			95	6	0	0.05†	0.03†	0.18†	0.07†	0.07
Travis	453	17	94	10	9	1.61	1.49	3.42	3.19	1.20
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

Methylene Chloride Data Summary

1992 - 1995

MDL = 0.40

24-Hour ESL = 30.00

Annual ESL = 7.50

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	2	0.07†	<.01	0.80	0.50	0.20
San Antonio			95	4	0	0.07†	0.06†	0.10†	0.06†	0.03
Brazoria	39	1003	92	7	0	<.01	<.01	<.01	<.01	0.00
Clute			93	46	8	0.19†	<.01	1.24	1.10	0.30
			94	53	10	0.19†	<.01	1.63	0.99	0.33
			95	62	27	0.92	0.36†	10.52	10.52	1.96
Cameron	61	6	93	19	0	0.08†	<.01	0.34†	0.34†	0.13
Brownsville			94	59	1	0.04†	<.01	1.72	0.34†	0.23
			95	57	3	0.09†	<.01	1.39	1.09	0.24
Dallas	113	70	93	49	3	0.13†	<.01	0.82	0.47	0.17
Dallas			94	58	1	0.03†	<.01	0.58	0.34†	0.09
			95	57	2	0.07†	<.01	0.45	0.40	0.11
Ector	135	3	93	52	1	0.05†	<.01	0.93	0.30†	0.14
Odessa			94	59	0	<.01	<.01	<.01	<.01	0.00
			95	59	0	0.01†	<.01	0.19†	0.07†	0.03
Ellis	139	7	93	55	1	0.09†	0.09†	0.40	0.27†	0.09
Midlothian			94	51	0	0.04†	<.01	0.27†	0.23†	0.07
			95	58	0	0.03†	<.01	0.16†	0.13†	0.04
El Paso	141	47	93	33	5	0.24†	<.01	5.33	0.66	0.93
El Paso			94	58	2	0.04†	<.01	1.05	1.01	0.19
			95	55	1	0.15†	<.01	5.37	0.25†	0.72
Galveston	167	53	92	9	0	<.01	<.01	<.01	<.01	0.00
Texas City			93	51	5	0.16†	<.01	1.99	1.31	0.39
			94	51	0	0.01†	<.01	0.12†	0.10†	0.02
			95	47	2	0.06†	<.01	0.67	0.40	0.12
Harris	201	24	95	7	0	0.13†	0.11†	0.26†	0.24†	0.09
Aldine										
Harris	201	26	92	7	0	<.01	<.01	<.01	<.01	0.00
Channelview			93	49	3	0.08†	<.01	1.91	0.62	0.29
			94	59	2	0.04†	<.01	1.01	0.58	0.16
			95	55	4	0.11†	<.01	0.57	0.51	0.15
Harris	201	64	93	43	5	0.11†	<.01	0.87	0.81	0.24
Houston, Allendale			94	54	0	0.01†	<.01	0.18†	0.15†	0.03
			95	53	3	0.09†	<.01	0.67	0.48	0.15
Harris	201	803	92	1	0	<.01	<.01	<.01	<.01	0.60
Houston, Haden			93	56	4	0.14†	<.01	4.28	1.11	0.25
			94	58	3	0.06†	<.01	1.59	0.95	0.25
			95	57	5	0.15†	<.01	2.45	1.43	0.39
Harris	201	1035	92	8	0	<.01	<.01	<.01	<.01	0.00
Houston, Clinton			93	50	3	0.05†	<.01	0.71	0.57	0.15
			94	58	2	0.02†	<.01	0.56	0.40	0.09
			95	60	2	0.08†	<.01	0.72	0.51	0.14

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Methylene Chloride Data Summary (continued)
1992 - 1995

MDL = 0.40

24-Hour ESL = 30.00

Annual ESL = 7.50

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Jefferson Beaumont	245 9	92	7	1	0.08†	<.01	0.50	<.01	0.19
		93	56	1	0.03†	<.01	0.40	0.27†	0.08
		94	59	1	0.01†	<.01	0.46	0.03†	0.06
		95	61	1	0.04†	<.01	0.48	0.24†	0.08
Jefferson Port Arthur	245 11	92	7	0	<.01	<.01	<.01	<.01	0.00
		93	60	2	0.08†	<.01	1.67	1.20	0.27
		94	57	0	0.02†	<.01	0.34†	0.30†	0.06
		95	58	1	0.07†	<.01	3.41	0.12†	0.45
Jefferson Groves	245 14	93	18	0	0.03†	<.01	0.29†	0.14†	0.07
		94	58	1	0.18†	<.01	9.36	0.37†	1.23
		95	53	0	0.03†	<.01	0.34†	0.19†	0.06
Jefferson Port Neches	245 17	94	23	1	0.03†	<.01	0.51	0.13†	0.11
Nueces Corpus Christi	355 20	93	55	4	0.08†	<.01	1.92	0.90	0.30
		94	52	1	0.18†	<.01	9.16	<.01	1.27
		95	53	0	0.01†	<.01	0.07†	0.07†	0.02
Orange West Orange	361 1001	94	27	0	0.02†	<.01	0.20†	0.15†	0.05
		95	21	1	0.08†	<.01	1.59	<.01	0.35
Smith Winona	423 5	94	32	2	0.09†	<.01	1.27	0.82	0.27
		95	18	0	0.04†	<.01	0.16†	0.12†	0.05
Tarrant Grapevine	439 3002	94	15	0	0.04†	<.01	0.18†	0.17†	0.07
		95	13	1	0.07†	0.06†	0.40	0.11†	0.11
Tarrant Irving, DFW Airport	439 3004	94	9	0	<.01	<.01	<.01	<.01	0.00
		95	6	0	0.07†	0.07†	0.13†	0.07†	0.04
Travis Austin	453 17	94	21	0	0.02†	<.01	0.20†	0.12†	0.05

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

2-Methylheptane Data Summary

1992 - 1995

MDL = 0.89

24-Hour ESL = 300.00

Annual ESL = 75.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.14†	0.10†	0.47†	0.14†	0.13
San Antonio			95	4	0	0.05†	0.05†	0.08†	0.06†	0.03
Brazoria	39	1003	94	14	1	1.19	0.06†	15.93	0.15†	4.24
Clute			95	62	0	0.04†	<.01	0.41†	0.24†	0.07
Cameron	61	6	94	14	0	0.09†	0.07†	0.28†	0.23†	0.08
Brownsville			95	57	0	0.04†	0.01†	0.17†	0.14†	0.04
Dallas	113	70	94	14	0	0.10†	0.07†	0.36†	0.26†	0.09
Dallas			95	57	0	0.05†	0.03†	0.21†	0.21†	0.06
Ector	135	3	94	14	0	0.14†	0.11†	0.41†	0.26†	0.10
Odessa			95	59	0	0.05†	0.03†	0.37†	0.32†	0.08
Ellis	139	7	94	12	0	0.04†	0.03†	0.10†	0.07†	0.03
Midlothian			95	58	0	0.02†	<.01	0.13†	0.07†	0.02
El Paso	141	47	94	14	1	0.30†	0.17†	1.29	0.63†	0.34
El Paso			95	55	0	0.09†	0.05†	0.45†	0.36†	0.11
Galveston	167	53	94	11	0	0.11†	0.09†	0.31†	0.20†	0.09
Texas City			95	47	0	0.07†	0.01†	0.46†	0.26†	0.10
Harris	201	24	95	7	0	0.02†	0.01†	0.06†	0.03†	0.02
Aldine										
Harris	201	26	94	15	0	0.08†	0.05†	0.31†	0.17†	0.08
Channelview			95	55	0	0.05†	0.02†	0.31†	0.22†	0.07
Harris	201	64	94	14	0	0.16†	0.14†	0.49†	0.22†	0.11
Houston, Allendale			95	53	0	0.06†	<.01	0.26†	0.23†	0.07
Harris	201	803	94	14	0	0.13†	0.09†	0.32†	0.22†	0.09
Houston, Haden			95	57	0	0.08†	0.02†	0.66†	0.40†	0.12
Harris	201	1035	94	14	0	0.24†	0.18†	0.67†	0.58†	0.19
Houston, Clinton			95	60	0	0.10†	0.06†	0.55†	0.33†	0.11
Jefferson	245	9	94	15	0	0.12†	0.12†	0.23†	0.19†	0.05
Beaumont			95	61	0	0.06†	0.04†	0.61†	0.18†	0.09
Jefferson	245	11	94	14	1	0.18†	0.06†	1.58	0.17†	0.41
Port Arthur			95	58	0	0.05†	0.02†	0.65†	0.24†	0.10
Jefferson	245	14	94	14	1	0.22†	0.11†	0.89	0.70†	0.26
Groves			95	53	0	0.09†	0.07†	0.80†	0.41†	0.13
Jefferson	245	17	94	13	0	0.09†	0.08†	0.18†	0.13†	0.05
Nueces	355	20	94	14	0	0.21†	0.13†	0.66†	0.59†	0.19
Corpus Christi			95	53	1	0.09†	0.04†	0.93	0.47†	0.16
Orange	361	1001	94	15	0	0.08†	0.07†	0.19†	0.16†	0.05
West Orange			95	21	0	0.05†	0.03†	0.18†	0.13†	0.05
Smith	423	5	94	15	0	0.06†	0.06†	0.15†	0.11†	0.04
Winona			95	18	0	0.02†	<.01	0.10†	0.06†	0.03
Tarrant	439	3002	94	1	0	0.04†		0.04†		
Grapevine			95	13	0	0.01†	<.01	0.08†	0.01†	0.02
Tarrant	439	3004	94	3	0	0.04†	0.03†	0.07†	0.03†	0.03
Irving, DFW Airport			95	6	0	0.01†	0.01†	0.01†	0.01†	0.00
Travis	453	17	94	10	0	0.07†	0.06†	0.26†	0.12†	0.08
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

3-Methylheptane Data Summary

1992 - 1995

MDL = 0.67

24-Hour ESL = 400.00

Annual ESL = 100.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.07†	0.07†	0.10†	0.10†	0.02
San Antonio			95	4	0	0.02†	0.02†	0.03†	0.02†	0.01
Brazoria	39	1003	94	14	0	0.05†	0.04†	0.11†	0.10†	0.03
Clute			95	62	0	0.04†	<.01	0.27†	0.16†	0.05
Cameron	61	6	94	14	0	0.10†	0.08†	0.31†	0.27†	0.10
Brownsville			95	57	0	0.05†	0.03†	0.26†	0.25†	0.06
Dallas	113	70	94	14	0	0.09†	0.06†	0.29†	0.26†	0.09
Dallas			95	57	0	0.04†	0.03†	0.29†	0.19†	0.06
Ector	135	3	94	14	0	0.12†	0.09†	0.41†	0.23†	0.10
Odessa			95	59	0	0.05†	0.02†	0.61†	0.32†	0.09
Ellis	139	7	94	12	0	0.04†	0.05†	0.06†	0.06†	0.02
Midlothian			95	58	0	0.01†	<.01	0.08†	0.05†	0.02
El Paso	141	47	94	14	1	0.22†	0.13†	0.72	0.45†	0.20
El Paso			95	55	0	0.09†	0.06†	0.41†	0.33†	0.09
Galveston	167	53	94	11	0	0.09†	0.08†	0.18†	0.14†	0.05
Texas City			95	47	0	0.07†	0.02†	0.35†	0.35†	0.09
Harris	201	24	95	7	0	0.02†	0.01†	0.06†	0.04†	0.02
Aldine										
Harris	201	26	94	15	0	0.09†	0.05†	0.33†	0.32†	0.10
Channelview			95	55	0	0.05†	0.02†	0.24†	0.24†	0.06
Harris	201	64	94	14	0	0.15†	0.11†	0.40†	0.30†	0.11
Houston, Allendale			95	53	0	0.06†	0.04†	0.24†	0.19†	0.06
Harris	201	803	94	14	0	0.13†	0.10†	0.26†	0.23†	0.08
Houston, Haden			95	57	1	0.09†	0.04†	0.72	0.45†	0.12
Harris	201	1035	94	14	0	0.21†	0.16†	0.61†	0.45†	0.16
Houston, Clinton			95	60	0	0.11†	0.07†	0.38†	0.37†	0.11
Jefferson	245	9	94	15	0	0.11†	0.11†	0.19†	0.15†	0.04
Beaumont			95	61	0	0.06†	0.04†	0.30†	0.22†	0.06
Jefferson	245	11	94	14	1	0.15†	0.07†	1.36	0.12†	0.35
Port Arthur			95	58	1	0.04†	0.02†	0.68	0.15†	0.09
Jefferson	245	14	94	14	0	0.14†	0.13†	0.32†	0.29†	0.11
Groves			95	53	0	0.08†	0.08†	0.39†	0.28†	0.08
Jefferson	245	17	94	13	0	0.05†	0.05†	0.12†	0.08†	0.04
Port Neches										
Nueces	355	20	94	14	0	0.15†	0.12†	0.57†	0.21†	0.13
Corpus Christi			95	53	1	0.08†	0.03†	0.81	0.43†	0.14
Orange	361	1001	94	15	0	0.06†	0.06†	0.21†	0.10†	0.05
West Orange			95	21	0	0.05†	<.01	0.14†	0.14†	0.06
Smith	423	5	94	15	0	0.03†	0.03†	0.10†	0.07†	0.03
Winona			95	18	0	0.02†	<.01	0.10†	0.06†	0.03
Tarrant	439	3002	94	1	0	0.06†		0.06†		
Grapevine			95	13	0	0.01†	<.01	0.07†	0.01†	0.02
Tarrant	439	3004	94	3	0	0.04†	0.04†	0.05†	0.04†	0.01
Irving, DFW Airport			95	6	0	0.01†	<.01	0.01†	0.01†	0.00
Travis	453	17	94	10	0	0.08†	0.08†	0.19†	0.12†	0.04
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

2-Methylhexane Data Summary

1992 - 1995

MDL = 0.2

24-Hour ESL = 300.00

Annual ESL = 75.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	4	0.12†	0.14†	0.30	0.25	0.12
San Antonio			95	4	1	0.15†	0.13†	0.23	0.13†	0.06
Brazoria	39	1003	94	14	0	<.01	<.01	<.01	<.01	0.00
Clute			95	62	2	0.05†	0.01†	0.46	0.22	0.07
Cameron	61	6	94	14	5	0.14†	0.04†	0.60	0.54	0.20
Brownsville			95	57	12	0.11†	0.03†	0.83	0.58	0.15
Dallas	113	70	94	14	4	0.13†	0.06†	0.62	0.36	0.18
Dallas			95	57	6	0.08†	<.01	0.71	0.64	0.15
Ector	135	3	94	14	6	0.18	<.01	0.83	0.50	0.26
Odessa			95	59	13	0.10†	<.01	0.73	0.52	0.16
Ellis	139	7	94	12	0	0.04†	<.01	0.12†	0.12†	0.05
Midlothian			95	58	0	0.02†	<.01	0.14†	0.10†	0.03
El Paso	141	47	94	14	8	0.55	0.21	3.23	1.27	0.87
El Paso			95	55	28	0.29	0.22	1.14	0.99	0.27
Galveston	167	53	94	11	3	0.07†	<.01	0.33	0.21	0.11
Texas City			95	47	17	0.18†	0.10†	0.87	0.65	0.21
Harris	201	24	95	7	1	0.13†	0.13†	0.24	0.18†	0.07
Aldine										
Harris	201	26	94	15	1	0.07†	<.01	0.55	0.15†	0.14
Channelview			95	55	6	0.10†	0.09†	0.55	0.53	0.13
Harris	201	64	94	14	7	0.23	0.16	1.03	0.54	0.29
Houston, Allendale			95	53	16	0.15†	0.10†	0.84	0.51	0.16
Harris	201	803	94	14	3	0.11†	<.01	0.55	0.39	0.18
Houston, Haden			95	57	15	0.13†	0.11†	0.82	0.44	0.15
Harris	201	1035	94	14	1	0.05†	<.01	0.60	<.01	0.16
Houston, Clinton			95	60	21	0.19†	0.08†	0.88	0.74	0.25
Jefferson	245	9	94	15	1	0.02†	<.01	0.18	0.11†	0.05
Beaumont			95	61	9	0.10†	0.06†	0.98	0.47	0.15
Jefferson	245	11	94	14	7	0.11†	0.12†	0.24	0.23	0.10
Port Arthur			95	58	8	0.10†	0.05†	0.76	0.34	0.13
Jefferson	245	14	94	14	1	0.04†	<.01	0.43	<.01	0.11
Groves			95	53	15	0.19†	<.01	2.10	0.91	0.36
Jefferson	245	17	94	13	2	0.04†	<.01	0.26	0.20	0.09
Nueces	355	20	94	14	10	0.33	0.27	1.49	0.56	0.38
Corpus Christi			95	53	21	0.21	0.10†	1.65	1.32	0.31
Orange	361	1001	94	15	2	0.05†	<.01	0.22	0.18	0.07
West Orange			95	21	6	0.13†	0.11†	0.54	0.43	0.15
Smith	423	5	94	15	5	0.10†	0.10†	0.32	0.23	0.10
Winona			95	18	1	0.07†	0.06†	0.29	0.15†	0.08
Tarrant	439	3002	94	1	0	<.01		<.01		
Grapevine			95	13	1	0.04†	0.02†	0.25	0.07†	0.07
Tarrant	439	3004	94	3	0	<.01	<.01	<.01	<.01	0.00
Irving, DFW Airport			95	6	0	0.04†	0.05†	0.09†	0.06†	0.03
Travis	453	17	94	10	4	0.10†	<.01	0.31	0.25	0.13
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

3-Methylhexane Data Summary

1992 - 1995

MDL = 0.27

24-Hour ESL = 400.00

Annual ESL = 100.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	1	0.16†	0.17†	0.27	0.25†	0.08
San Antonio			95	4	0	0.09†	0.09†	0.17†	0.16†	0.09
Brazoria	39	1003	94	14	1	0.11†	0.10†	0.29	0.23†	0.08
Clute			95	62	2	0.10†	0.05†	1.94	0.49	0.25
Cameron	61	6	94	14	3	0.17†	0.14†	0.58	0.53	0.19
Brownsville			95	57	8	0.11†	0.05†	1.04	0.88	0.19
Dallas	113	70	94	14	3	0.21†	0.14†	0.64	0.50	0.18
Dallas			95	57	4	0.08†	0.05†	0.58	0.44	0.11
Ector	135	3	94	14	10	0.42	0.34	1.00	0.98	0.29
Odessa			95	59	16	0.22†	0.10†	1.49	1.03	0.29
Ellis	139	7	94	12	0	0.07†	0.07†	0.13†	0.12†	0.05
Midlothian			95	58	0	0.02†	<.01	0.16†	0.09†	0.03
El Paso	141	47	94	14	7	0.59	0.25†	3.10	1.31	0.82
El Paso			95	55	26	0.33	0.24†	1.13	0.95	0.26
Galveston	167	53	94	11	4	0.18†	0.18†	0.33	0.31	0.11
Texas City			95	47	12	0.18†	0.09†	0.74	0.68	0.21
Harris	201	24	95	7	0	0.04†	<.01	0.11†	0.08†	0.04
Aldine										
Harris	201	26	94	15	2	0.18†	0.09†	0.67	0.60	0.20
Channelview			95	55	4	0.11†	0.08†	0.65	0.58	0.15
Harris	201	64	94	14	6	0.36	0.20†	1.10	0.80	0.30
Houston, Allendale			95	53	11	0.16†	0.12†	0.89	0.72	0.18
Harris	201	803	94	14	5	0.23†	0.17†	0.50	0.45	0.15
Houston, Haden			95	57	10	0.16†	0.13†	0.84	0.69	0.18
Harris	201	1035	94	14	9	0.42	0.34	1.11	0.86	0.31
Houston, Clinton			95	60	32	0.31	0.29	0.89	0.86	0.25
Jefferson	245	9	94	15	3	0.22†	0.20†	0.43	0.41	0.10
Beaumont			95	61	4	0.12†	0.10†	1.11	0.38	0.16
Jefferson	245	11	94	14	3	0.17†	0.18†	0.31	0.30	0.09
Port Arthur			95	58	8	0.13†	0.11†	0.79	0.42	0.14
Jefferson	245	14	94	14	7	0.40	0.34	1.12	1.11	0.37
Groves			95	53	25	0.32	0.18†	2.29	1.06	0.38
Jefferson	245	17	94	13	0	0.11†	0.13†	0.25†	0.19†	0.07
Nueces	355	20	94	14	8	0.35	0.29	1.54	0.57	0.38
Corpus Christi			95	53	17	0.26†	0.16†	2.36	1.16	0.37
Orange	361	1001	94	15	1	0.12†	0.13†	0.30	0.20†	0.08
West Orange			95	21	4	0.13†	0.10†	0.58	0.37	0.15
Smith	423	5	94	15	1	0.16†	0.12†	0.48	0.24†	0.12
Winona			95	18	1	0.06†	0.04†	0.32	0.15†	0.08
Tarrant	439	3002	94	1	0	0.14†		0.14†		
Grapevine			95	13	1	0.05†	0.03†	0.32	0.08†	0.08
Tarrant	439	3004	94	3	0	0.10†	0.10†	0.11†	0.10†	0.01
Irving, DFW Airport			95	6	0	0.03†	0.03†	0.07†	0.06†	0.03
Travis	453	17	94	10	3	0.23†	0.22†	0.48	0.30	0.10
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

2-Methylpentane Data Summary

1992 - 1995

MDL = 0.32

24-Hour ESL = 400.00

Annual ESL = 100.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	6	0.49	0.46	1.13	0.68	0.32
San Antonio			95	4	2	0.25†	0.19†	0.60	0.38	0.29
Brazoria	39	1003	94	14	3	0.25†	0.23†	0.84	0.42	0.21
Clute			95	62	14	0.22†	0.19†	1.03	0.52	0.18
Cameron	61	6	94	14	8	0.47	0.36	1.46	1.42	0.49
Brownsville			95	57	12	0.22†	0.11†	1.45	1.37	0.31
Dallas	113	70	94	14	7	0.46	0.32	1.45	1.06	0.39
Dallas			95	57	13	0.19†	0.15†	0.77	0.72	0.20
Ector	135	3	94	14	10	0.66	0.57	1.91	1.57	0.54
Odessa			95	59	25	0.37	0.26†	2.53	1.66	0.44
Ellis	139	7	94	12	2	0.18†	0.21†	0.39	0.32	0.13
Midlothian			95	58	0	0.08†	0.06†	0.31†	0.29†	0.09
El Paso	141	47	94	14	10	2.78	0.61	17.09	12.54	5.23
El Paso			95	55	44	1.85	0.89	15.53	7.68	2.55
Galveston	167	53	94	11	6	0.63	0.46	2.15	1.03	0.59
Texas City			95	47	30	0.72	0.44	2.71	2.53	0.73
Harris	201	24	95	7	5	0.38	0.45	0.70	0.54	0.27
Aldine										
Harris	201	26	94	15	5	0.31†	0.25†	0.94	0.70	0.27
Channelview			95	55	28	0.39	0.33	1.75	1.64	0.37
Harris	201	64	94	14	10	1.10	0.52	5.60	1.83	1.43
Houston, Allendale			95	53	28	0.63	0.38	4.46	4.20	0.92
Harris	201	803	94	14	10	0.61	0.41	1.67	1.47	0.49
Houston, Haden			95	57	33	0.48	0.42	1.84	1.80	0.48
Harris	201	1035	94	14	12	1.11	0.98	3.35	2.34	0.89
Houston, Clinton			95	60	37	0.78	0.57	4.04	2.85	0.85
Jefferson	245	9	94	15	13	0.86	0.66	3.00	1.24	0.69
Beaumont			95	61	39	0.53	0.45	3.26	2.20	0.56
Jefferson	245	11	94	14	7	0.44	0.33	1.00	0.81	0.31
Port Arthur			95	58	33	0.65	0.39	5.20	2.94	0.83
Jefferson	245	14	94	14	9	1.05	0.81	4.42	1.80	1.14
Groves			95	53	41	1.23	0.77	10.67	3.29	1.58
Jefferson	245	17	94	13	10	0.45	0.42	1.08	0.65	0.25
Nueces	355	20	94	14	11	0.77	0.63	1.68	1.62	0.60
Corpus Christi			95	53	31	0.89	0.52	5.49	3.39	1.09
Orange	361	1001	94	15	10	0.45	0.41	1.17	0.68	0.28
West Orange			95	21	11	0.63	0.39	3.44	2.34	0.84
Smith	423	5	94	15	5	0.25†	0.20†	0.51	0.51	0.16
Winona			95	18	5	0.19†	0.12†	1.06	0.41	0.26
Tarrant	439	3002	94	1	1	0.47		0.47		
Grapevine			95	13	0	0.09†	<.01	0.30†	0.26†	0.11
Tarrant	439	3004	94	3	1	0.31†	0.27†	0.42	0.27†	0.10
Irving, DFW Airport			95	6	1	0.12†	0.03†	0.41	0.24†	0.17
Travis	453	17	94	10	9	0.77	0.70	1.55	1.33	0.42
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

3-Methylpentane Data Summary

1992 - 1995

MDL = 0.34

24-Hour ESL = 400.00

Annual ESL = 100.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	6	0.35	0.37	0.73	0.66	0.25
San Antonio			95	4	3	0.38	0.41	0.53	0.45	0.15
Brazoria	39	1003	94	14	3	0.21†	0.21†	0.76	0.49	0.22
Clute			95	62	6	0.15†	0.11†	0.83	0.58	0.17
Cameron	61	6	94	14	6	0.39	0.30†	1.27	1.18	0.41
Brownsville			95	57	12	0.29†	0.13†	4.53	1.03	0.62
Dallas	113	70	94	14	5	0.40	0.27†	1.32	1.01	0.38
Dallas			95	57	7	0.22†	0.15†	1.67	1.48	0.31
Ector	135	3	94	14	9	0.57	0.47	1.62	1.30	0.47
Odessa			95	59	18	0.33†	0.25†	1.80	1.55	0.33
Ellis	139	7	94	12	1	0.94	0.17†	9.59	0.31†	2.73
Midlothian			95	58	1	0.08†	0.06†	0.71	0.24†	0.11
El Paso	141	47	94	14	10	3.78	0.62	20.86	20.25	7.17
El Paso			95	55	41	1.35	0.62	8.54	5.91	1.67
Galveston	167	53	94	11	5	0.51	0.31†	1.79	0.98	0.52
Texas City			95	47	27	0.59	0.43	1.86	1.71	0.48
Harris	201	24	95	7	3	0.32†	0.33†	0.68	0.60	0.26
Aldine										
Harris	201	26	94	15	2	0.13†	<.01	0.67	0.36	0.19
Channelview			95	55	22	0.27†	0.23†	1.66	1.05	0.31
Harris	201	64	94	14	3	0.18†	<.01	1.11	0.44	0.31
Houston, Allendale			95	53	25	0.48	0.28†	2.74	2.16	0.57
Harris	201	803	94	14	8	0.44	0.37	1.20	1.11	0.40
Houston, Haden			95	57	33	0.49	0.47	2.19	2.06	0.48
Harris	201	1035	94	14	7	0.82	0.46	2.44	2.25	0.83
Houston, Clinton			95	60	45	0.82	0.79	2.86	2.27	0.64
Jefferson	245	9	94	15	11	0.62	0.67	1.31	1.18	0.46
Beaumont			95	61	41	0.52	0.49	2.43	1.31	0.41
Jefferson	245	11	94	14	6	0.28†	0.11†	0.85	0.72	0.32
Port Arthur			95	58	37	0.56	0.52	2.05	1.65	0.45
Jefferson	245	14	94	14	7	0.78	0.37	3.12	1.76	0.94
Groves			95	53	40	0.93	0.77	7.01	2.63	1.04
Jefferson	245	17	94	13	6	0.35	0.27†	0.86	0.75	0.30
Nueces	355	20	94	14	10	0.66	0.63	1.78	1.38	0.56
Corpus Christi			95	53	34	0.78	0.44	4.70	4.08	0.98
Orange	361	1001	94	15	8	0.42	0.36	1.15	0.75	0.29
West Orange			95	21	15	0.62	0.48	2.34	1.91	0.62
Smith	423	5	94	15	2	0.23†	0.20†	0.87	0.39	0.21
Winona			95	18	5	0.20†	0.12†	0.76	0.60	0.22
Tarrant	439	3002	94	1	0	0.29†		0.29†		
Grapevine			95	13	1	0.13†	0.10†	0.58	0.23†	0.16
Tarrant	439	3004	94	3	1	6.66	0.31†	19.38	0.31†	11.02
Irving, DFW Airport			95	6	0	0.10†	0.06†	0.24†	0.23†	0.11
Travis	453	17	94	10	9	2.54	0.72	18.63	1.55	5.67
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

2-Methyl-1-Pentene Data Summary

1992 - 1995

MDL = 0.40

24-Hour ESL = 3,200.00

Annual ESL = 800.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	<.01	<.01	<.01	<.01	0.00
San Antonio			95	4	2	0.29†	0.29†	0.57	0.56	0.32
Brazoria	39	1003	94	14	0	<.01	<.01	<.01	<.01	0.00
Clute			95	62	1	0.04†	<.01	1.57	0.28†	0.20
Cameron	61	6	94	14	2	0.04†	<.01	0.30	0.25	0.10
Brownsville			95	57	1	0.03†	<.01	0.50	0.27†	0.08
Dallas	113	70	94	14	1	0.03†	<.01	0.32	<.01	0.08
Dallas			95	57	0	0.01†	<.01	0.23†	0.11†	0.03
Ector	135	3	94	14	0	<.01	<.01	<.01	<.01	0.00
Odessa			95	59	2	0.06†	<.01	2.01	0.55	0.27
Ellis	139	7	94	12	0	<.01	<.01	<.01	<.01	0.00
Midlothian			95	58	0	0.01†	<.01	0.02†	<.01	0.00
El Paso	141	47	94	14	4	0.13	<.01	0.97	0.41	0.27
El Paso			95	55	3	0.13†	0.05†	0.85	0.74	0.18
Galveston	167	53	94	11	0	<.01	<.01	<.01	<.01	0.00
Texas City			95	47	3	0.08†	<.01	0.50	0.46	0.14
Harris	201	24	95	7	1	0.15†	0.02†	0.89	0.10†	0.33
Aldine										
Harris	201	26	94	15	0	<.01	<.01	<.01	<.01	0.00
Channelview			95	55	6	0.15†	<.01	1.50	1.01	0.27
Harris	201	64	94	14	2	0.12	<.01	1.32	0.30	0.35
Houston, Allendale			95	53	9	0.16†	<.01	1.79	1.02	0.33
Harris	201	803	94	14	3	0.07†	<.01	0.55	0.20	0.15
Houston, Haden			95	57	12	0.47	<.01	12.00	2.91	1.65
Harris	201	1035	94	14	2	0.12	<.01	1.35	0.20	0.36
Houston, Clinton			95	60	17	0.31†	0.16†	2.42	2.10	0.50
Jefferson	245	9	94	15	0	<.01	<.01	<.01	<.01	0.00
Beaumont			95	61	3	0.06†	<.01	0.78	0.49	0.14
Jefferson	245	11	94	14	0	0.01†	<.01	0.10†	<.01	0.03
Port Arthur			95	58	6	0.13†	<.01	2.22	0.71	0.33
Jefferson	245	14	94	14	0	0.01†	<.01	0.06†	0.04†	0.02
Groves			95	53	4	0.08†	<.01	0.58	0.57	0.15
Jefferson	245	17	94	13	0	0.01†	<.01	0.10†	<.01	0.03
Nueces	355	20	94	14	0	0.01†	<.01	0.01†	<.01	0.00
Corpus Christi			95	53	3	0.10†	<.01	1.53	1.45	0.34
Orange	361	1001	94	15	0	0.01†	<.01	0.10†	<.01	0.02
West Orange			95	21	0	0.04†	<.01	0.35†	0.17†	0.08
Smith	423	5	94	15	0	<.01	<.01	<.01	<.01	0.00
Winona			95	18	0	0.02†	<.01	0.31†	0.03†	0.07
Tarrant	439	3002	94	1	0	<.01	<.01	<.01	<.01	0.00
Grapevine			95	13	0	<.01	<.01	<.01	<.01	0.00
Tarrant	439	3004	94	3	0	<.01	<.01	<.01	<.01	0.00
Irving, DFW Airport			95	6	0	0.01†	<.01	0.01†	<.01	0.00
Travis	453	17	94	10	2	0.04†	<.01	0.17	0.17	0.07
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

4-Methyl-1-Pentene Data Summary

1992 - 1995

MDL = 0.50

24-Hour ESL = 3,200.00

Annual ESL = 800.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.12†	0.05†	0.29†	0.25†	0.12
San Antonio			95	4	0	0.01†	<.01	0.01†	<.01	0.00
Brazoria	39	1003	94	14	0	0.09†	0.01†	0.32†	0.29†	0.12
Clute			95	62	0	0.03†	<.01	0.35†	0.30†	0.07
Cameron	61	6	94	14	0	0.03†	<.01	0.09†	0.08†	0.03
Brownsville			95	57	0	0.03†	<.01	0.24†	0.23†	0.05
Dallas	113	70	94	14	0	0.09†	0.01†	0.49†	0.26†	0.14
Dallas			95	57	0	0.02†	<.01	0.22†	0.14†	0.04
Ector	135	3	94	14	1	0.08†	<.01	0.54	0.19†	0.15
Odessa			95	59	3	0.05†	<.01	0.84	0.67	0.16
Ellis	139	7	94	12	0	0.04†	0.01†	0.21†	0.10†	0.06
Midlothian			95	58	0	0.02†	<.01	0.13†	0.10†	0.03
El Paso	141	47	94	14	2	1.35	0.09†	16.93	0.73	4.49
El Paso			95	55	3	0.09†	<.01	1.06	0.63	0.19
Galveston	167	53	94	11	0	0.06†	0.06†	0.20†	0.12†	0.06
Texas City			95	47	1	0.06†	<.01	1.27	0.33†	0.20
Harris	201	24	95	7	0	0.01†	<.01	0.02†	0.01†	0.01
Aldine										
Harris	201	26	94	15	0	0.10†	0.08†	0.25†	0.24†	0.08
Channelview			95	55	0	0.08†	<.01	0.39†	0.39†	0.13
Harris	201	64	94	14	1	0.18†	0.14†	0.56	0.32†	0.15
Houston, Allendale			95	53	2	0.09†	<.01	0.97	0.50	0.18
Harris	201	803	94	14	3	0.17†	0.06†	0.68	0.59	0.24
Houston, Haden			95	57	5	0.11†	<.01	1.34	0.70	0.25
Harris	201	1035	94	14	0	0.06†	0.03†	0.35†	0.16†	0.09
Houston, Clinton			95	60	8	0.14†	<.01	1.51	0.76	0.27
Jefferson	245	9	94	15	0	0.12†	0.05†	0.37†	0.37†	0.14
Beaumont			95	61	2	0.06†	<.01	0.87	0.84	0.17
Jefferson	245	11	94	14	0	0.14†	0.07†	0.46†	0.40†	0.17
Port Arthur			95	58	3	0.11†	<.01	1.52	1.30	0.28
Jefferson	245	14	94	14	4	0.27†	<.01	1.20	0.89	0.43
Groves			95	53	6	0.16†	<.01	2.52	0.78	0.39
Jefferson	245	17	94	13	0	0.03†	<.01	0.27†	0.06†	0.07
Nueces	355	20	94	14	2	0.27†	0.14†	1.19	0.99	0.38
Corpus Christi			95	53	4	0.15†	<.01	1.88	1.50	0.35
Orange	361	1001	94	15	0	0.07†	0.03†	0.44†	0.24†	0.12
West Orange			95	21	1	0.09†	0.04†	0.74	0.18†	0.16
Smith	423	5	94	15	0	0.05†	<.01	0.17†	0.17†	0.07
Winona			95	18	0	0.01†	<.01	0.09†	0.03†	0.02
Tarrant	439	3002	94	1	0	<.01		<.01		
Grapevine			95	13	0	0.01†	<.01	0.01†	<.01	0.00
Tarrant	439	3004	94	3	0	<.01	<.01	<.01	<.01	0.00
Irving, DFW Airport			95	6	0	<.01	<.01	<.01	<.01	0.00
Travis	453	17	94	10	0	0.07†	0.04†	0.29†	0.17†	0.09
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

n-Nonane Data Summary
1992 - 1995

MDL = 0.94

24-Hour ESL = 800.00

Annual ESL = 200.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	<.01	<.01	<.01	<.01	0.00
San Antonio			95	4	0	0.03†	0.03†	0.05†	0.03†	0.02
Brazoria	39	1003	94	14	0	<.01	<.01	<.01	<.01	0.00
Clute			95	62	0	0.01†	<.01	0.01†	0.01†	0.00
Cameron	61	6	94	14	0	<.01	<.01	<.01	<.01	0.00
Brownsville			95	57	0	0.02†	<.01	0.23†	0.11†	0.04
Dallas	113	70	94	14	0	<.01	<.01	<.01	<.01	0.00
Dallas			95	57	0	0.01†	<.01	0.16†	0.08†	0.02
Ector	135	3	94	14	0	<.01	<.01	<.01	<.01	0.00
Odessa			95	59	0	0.01†	<.01	0.19†	0.13†	0.03
Ellis	139	7	94	12	0	<.01	<.01	<.01	<.01	0.00
Midlothian			95	58	0	0.01†	<.01	0.13†	0.04†	0.02
El Paso	141	47	94	14	0	0.02†	<.01	0.28†	<.01	0.07
El Paso			95	55	0	0.03†	<.01	0.51†	0.20†	0.08
Galveston	167	53	94	11	0	<.01	<.01	<.01	<.01	0.00
Texas City			95	47	0	0.02†	<.01	0.54†	0.09†	0.08
Harris	201	24	95	7	0	0.02†	<.01	0.04†	0.03†	0.01
Aldine										
Harris	201	26	94	15	0	<.01	<.01	<.01	<.01	0.00
Channelview			95	55	0	0.01†	<.01	0.36†	0.04†	0.05
Harris	201	64	94	14	0	<.01	<.01	<.01	<.01	0.00
Houston, Allendale			95	53	0	0.01†	<.01	0.16†	0.06†	0.02
Harris	201	803	94	14	0	<.01	<.01	<.01	<.01	0.00
Houston, Haden			95	57	0	0.02†	<.01	0.30†	0.14†	0.05
Harris	201	1035	94	14	0	<.01	<.01	<.01	<.01	0.00
Houston, Clinton			95	60	0	0.01†	<.01	0.15†	0.08†	0.02
Jefferson	245	9	94	15	0	0.15†	<.01	0.73†	0.32†	0.21
Beaumont			95	61	0	0.10†	<.01	0.91†	0.52†	0.16
Jefferson	245	11	94	14	0	0.01†	<.01	0.10†	<.01	0.03
Port Arthur			95	58	0	0.03†	<.01	0.71†	0.15†	0.10
Jefferson	245	14	94	14	0	0.08†	<.01	0.42†	0.35†	0.14
Groves			95	53	0	0.07†	<.01	0.52†	0.37†	0.12
Jefferson	245	17	94	13	1	0.13†	<.01	1.61	<.01	0.45
Port Neches										
Nueces	355	20	94	14	0	0.11†	<.01	0.65†	0.53†	0.22
Corpus Christi			95	53	0	0.03†	<.01	0.34†	0.24†	0.07
Orange	361	1001	94	15	0	<.01	<.01	<.01	<.01	0.00
West Orange			95	21	0	0.01†	<.01	0.13†	<.01	0.03
Smith	423	5	94	15	0	<.01	<.01	<.01	<.01	0.00
Winona			95	18	0	0.01†	<.01	0.03†	0.02†	0.01
Tarrant	439	3002	94	1	0	<.01	<.01	<.01	0.01†	0.02
Grapevine			95	13	0	0.01†	<.01	0.07†	0.01†	
Tarrant	439	3004	94	3	0	<.01	<.01	<.01	<.01	0.00
Irving, DFW Airport			95	6	0	0.01†	0.01†	0.02†	0.01†	0.01
Travis	453	17	94	10	0	<.01	<.01	<.01	<.01	0.00
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

n-Octane Data Summary
1992 - 1995

MDL = 0.80

24-Hour ESL = 300.00

Annual ESL = 75.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.07†	0.07†	0.11†	0.08†	0.02
San Antonio			95	4	0	0.06†	0.05†	0.09†	0.05†	0.03
Brazoria	39	1003	94	14	0	0.04†	0.03†	0.12†	0.10†	0.04
Clute			95	62	0	0.02†	<.01	0.19†	0.13†	0.04
Cameron	61	6	94	14	0	0.07†	0.03†	0.25†	0.17†	0.08
Brownsville			95	57	0	0.03†	<.01	0.33†	0.32†	0.06
Dallas	113	70	94	14	0	0.07†	0.05†	0.23†	0.22†	0.08
Dallas			95	57	0	0.03†	<.01	0.18†	0.16†	0.04
Ector	135	3	94	14	0	0.14†	0.12†	0.43†	0.28†	0.11
Odessa			95	59	0	0.04†	<.01	0.41†	0.32†	0.08
Ellis	139	7	94	12	0	0.04†	0.04†	0.11†	0.07†	0.03
Midlothian			95	58	0	0.01†	<.01	0.06†	0.06†	0.01
El Paso	141	47	94	14	0	0.21†	0.13†	0.78†	0.64†	0.24
El Paso			95	55	0	0.06†	<.01	0.45†	0.31†	0.09
Galveston	167	53	94	11	0	0.09†	0.09†	0.19†	0.15†	0.05
Texas City			95	47	0	0.06†	<.01	0.31†	0.30†	0.09
Harris	201	24	95	7	0	0.03†	0.02†	0.08†	0.07†	0.03
Aldine										
Harris	201	26	94	15	0	0.09†	0.06†	0.30†	0.20†	0.08
Channelview			95	55	0	0.05†	<.01	0.35†	0.35†	0.09
Harris	201	64	94	14	0	0.12†	0.09†	0.40†	0.23†	0.11
Houston, Allendale			95	53	0	0.05†	<.01	0.36†	0.24†	0.07
Harris	201	803	94	14	0	0.13†	0.12†	0.35†	0.31†	0.12
Houston, Haden			95	57	1	0.13†	0.02†	1.21	0.76†	0.22
Harris	201	1035	94	14	0	0.21†	0.22†	0.46†	0.40†	0.15
Houston, Clinton			95	60	0	0.09†	<.01	0.48†	0.40†	0.13
Jefferson	245	9	94	15	0	0.13†	0.16†	0.28†	0.25†	0.10
Beaumont			95	61	0	0.05†	<.01	0.34†	0.30†	0.08
Jefferson	245	11	94	14	1	0.19†	0.09†	1.46	0.21†	0.37
Port Arthur			95	58	0	0.05†	<.01	0.70†	0.19†	0.10
Jefferson	245	14	94	14	0	0.19†	0.15†	0.59†	0.48†	0.18
Groves			95	53	0	0.12†	<.01	0.62†	0.54†	0.17
Jefferson	245	17	94	13	0	0.13†	0.13†	0.23†	0.22†	0.09
Nueces	355	20	94	14	0	0.21†	0.16†	0.76†	0.40†	0.19
Corpus Christi			95	53	1	0.11†	<.01	0.91	0.61†	0.18
Orange	361	1001	94	15	0	0.08†	0.05†	0.61†	0.09†	0.15
West Orange			95	21	0	0.04†	<.01	0.18†	0.12†	0.05
Smith	423	5	94	15	0	0.04†	0.04†	0.13†	0.08†	0.04
Winona			95	18	0	0.02†	0.01†	0.10†	0.07†	0.03
Tarrant	439	3002	94	1	0	0.06†		0.06†		
Grapevine			95	13	0	0.01†	<.01	0.10†	0.02†	0.03
Tarrant	439	3004	94	3	0	0.03†	0.04†	0.05†	0.04†	0.02
Irving, DFW Airport			95	6	0	0.01†	0.01†	0.03†	0.02†	0.01
Travis	453	17	94	10	0	0.03†	0.04†	0.07†	0.06†	0.03
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

n-Pentane Data Summary
1992 - 1995

MDL = 0.58

24-Hour ESL = 480.00

Annual ESL = 120.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	9	1.49	1.40	2.36	2.08	0.54
San Antonio			95	4	4	2.50	2.55	3.58	3.28	1.10
Brazoria	39	1003	94	14	10	0.75	0.75	1.63	1.60	0.44
Clute			95	62	44	0.88	0.86	2.19	1.69	0.43
Cameron	61	6	94	14	9	1.21	0.94	4.51	3.71	1.36
Brownsville			95	57	29	1.04	0.59	9.62	5.20	1.55
Dallas	113	70	94	14	12	1.28	0.96	3.75	1.96	0.89
Dallas			95	57	35	1.04	0.67	6.60	5.36	1.20
Ector	135	3	94	14	14	3.21	2.25	6.95	6.79	2.29
Odessa			95	59	59	2.25	1.82	9.71	8.43	1.74
Ellis	139	7	94	12	8	0.77	0.69	1.33	1.12	0.30
Midlothian			95	58	20	0.51†	0.44†	2.12	1.63	0.36
El Paso	141	47	94	14	13	31.32	5.18	201.50	142.90	61.32
El Paso			95	55	54	13.10	6.86	61.98	55.77	15.49
Galveston	167	53	94	11	9	1.56	1.17	3.94	2.52	1.11
Texas City			95	47	42	2.36	1.58	8.12	6.84	1.82
Harris	201	24	95	7	7	2.36	1.43	4.23	3.90	1.37
Aldine										
Harris	201	26	94	15	13	1.27	1.07	3.38	2.54	0.82
Channelview			95	55	49	1.40	1.25	4.26	4.03	0.86
Harris	201	64	94	14	11	2.35	1.49	9.01	4.67	2.36
Houston, Allendale			95	53	45	2.23	1.37	12.66	7.78	2.34
Harris	201	803	94	14	14	1.43	1.17	3.03	2.89	0.85
Houston, Haden			95	57	54	2.70	1.82	18.54	15.76	3.11
Harris	201	1035	94	14	13	2.82	2.66	6.07	5.77	1.83
Houston, Clinton			95	60	60	2.64	2.44	6.66	6.06	1.40
Jefferson	245	9	94	15	15	2.88	2.03	13.00	3.90	2.93
Beaumont			95	61	56	2.04	1.94	6.71	5.49	1.18
Jefferson	245	11	94	14	13	1.94	1.59	4.79	4.20	1.44
Port Arthur			95	58	56	3.45	2.85	10.77	9.96	2.35
Jefferson	245	14	94	14	13	3.60	2.70	20.02	4.66	4.89
Groves			95	53	51	4.08	2.83	15.32	12.44	3.42
Jefferson	245	17	94	13	12	1.39	1.33	4.55	1.81	1.04
Nueces	355	20	94	14	13	2.88	2.32	10.65	4.86	2.57
Corpus Christi			95	53	45	3.25	2.01	21.47	13.82	3.83
Orange	361	1001	94	15	13	1.14	1.11	2.06	1.70	0.48
West Orange			95	21	19	2.31	1.46	10.01	8.54	2.52
Smith	423	5	94	15	10	0.88	0.80	1.49	1.49	0.46
Winona			95	18	15	1.56	1.24	5.20	4.69	1.34
Tarrant	439	3002	94	1	1	0.97		0.97		0.97
Grapevine			95	13	11	1.00	0.71	3.97	1.56	
Tarrant	439	3004	94	3	2	0.65	0.58	0.86	0.58	0.18
Irving, DFW Airport			95	6	5	1.00	0.87	1.70	1.27	0.42
Travis	453	17	94	10	9	1.71	1.53	4.61	1.91	1.11
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

1-Pentene Data Summary
1992 - 1995

MDL = 0.31

24-Hour ESL = 3,200.00

Annual ESL = 800.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	1	0.11†	0.09†	0.34	0.14†	0.09
San Antonio			95	4	0	0.10†	0.10†	0.20†	0.12†	0.08
Brazoria	39	1003	94	14	0	0.05†	0.04†	0.14†	0.13†	0.04
Clute			95	62	0	0.03†	0.02†	0.17†	0.12†	0.04
Cameron	61	6	94	14	2	0.11†	0.05†	0.36	0.32	0.12
Brownsville			95	57	0	0.04†	0.02†	0.20†	0.19†	0.06
Dallas	113	70	94	14	0	0.08†	0.05†	0.27†	0.24†	0.08
Dallas			95	57	3	0.05†	0.01†	0.38	0.37	0.08
Ector	135	3	94	14	0	0.08†	0.07†	0.28†	0.10†	0.07
Odessa			95	59	0	0.06†	0.03†	0.23†	0.23†	0.07
Ellis	139	7	94	12	0	0.04†	0.03†	0.11†	0.08†	0.03
Midlothian			95	58	1	0.02†	<.01	0.31	0.08†	0.04
El Paso	141	47	94	14	4	0.48	0.13†	2.87	1.89	0.84
El Paso			95	55	16	0.34	0.20†	5.65	1.70	0.77
Galveston	167	53	94	11	0	0.11†	0.07†	0.28†	0.22†	0.10
Texas City			95	47	11	0.15†	0.09†	0.76	0.51	0.18
Harris	201	24	95	7	0	0.14†	0.08†	0.27†	0.26†	0.12
Aldine										
Harris	201	26	94	15	0	0.07†	0.04†	0.27†	0.19†	0.08
Channelview			95	55	2	0.07†	0.06†	0.34	0.31	0.08
Harris	201	64	94	14	4	0.22†	0.09†	1.32	0.50	0.35
Houston, Allendale			95	53	11	0.20†	0.09†	1.75	1.44	0.33
Harris	201	803	94	14	0	0.11†	0.07†	0.29†	0.28†	0.10
Houston, Haden			95	57	6	0.14†	0.08†	1.48	0.48	0.22
Harris	201	1035	94	14	2	0.19†	0.17†	0.61	0.35	0.16
Houston, Clinton			95	60	19	0.24†	0.21†	0.79	0.69	0.20
Jefferson	245	9	94	15	1	0.12†	0.08†	0.57	0.21†	0.14
Beaumont			95	61	4	0.10†	0.06†	0.68	0.41	0.13
Jefferson	245	11	94	14	2	0.12†	0.09†	0.37	0.36	0.12
Port Arthur			95	58	12	0.17†	0.15†	0.92	0.74	0.19
Jefferson	245	14	94	14	1	0.15†	0.10†	0.91	0.28†	0.23
Groves			95	53	10	0.19†	0.10†	1.37	1.19	0.27
Jefferson	245	17	94	13	0	0.04†	0.03†	0.09†	0.08†	0.03
Nueces	355	20	94	14	0	0.10†	0.07†	0.26†	0.21†	0.09
Corpus Christi			95	53	5	0.14†	0.06†	1.31	1.13	0.26
Orange	361	1001	94	15	1	0.11†	0.09†	0.32	0.27†	0.10
West Orange			95	21	3	0.22†	0.15†	1.21	0.66	0.29
Smith	423	5	94	15	0	0.04†	0.02†	0.14†	0.14†	0.05
Winona			95	18	0	0.03†	<.01	0.13†	0.11†	0.04
Tarrant	439	3002	94	1	0	<.01		<.01		
Grapevine			95	13	0	0.02†	<.01	0.23†	0.02†	0.06
Tarrant	439	3004	94	3	0	0.02†	<.01	0.06†	<.01	0.03
Irving, DFW Airport			95	6	0	0.02†	0.02†	0.05†	0.03†	0.02
Travis	453	17	94	10	1	0.10†	0.07†	0.37	0.19†	0.11
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

c-2-Pentene Data Summary
1992 - 1995

MDL = 0.40

24-Hour ESL = 3,200.00

Annual ESL = 800.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.24†	0.22†	0.39†	0.33†	0.08
San Antonio			95	4	0	0.08†	0.08†	0.15†	0.11†	0.06
Brazoria	39	1003	94	14	0	0.07†	0.06†	0.26†	0.18†	0.07
Clute			95	62	0	0.05†	0.02†	0.36†	0.27†	0.07
Cameron	61	6	94	14	3	0.26†	0.11†	0.89	0.82	0.31
Brownsville			95	57	2	0.11†	0.07†	1.03	0.55	0.16
Dallas	113	70	94	14	3	0.26†	0.16†	0.77	0.69	0.26
Dallas			95	57	3	0.08†	<.01	0.80	0.42	0.15
Ector	135	3	94	14	3	0.23†	0.18†	0.85	0.47	0.24
Odessa			95	59	5	0.16†	0.11†	1.12	0.64	0.19
Ellis	139	7	94	12	0	0.03†	0.02†	0.09†	0.07†	0.03
Midlothian			95	58	0	0.01†	<.01	0.12†	0.08†	0.02
El Paso	141	47	94	14	8	1.14	0.62	3.68	2.65	1.12
El Paso			95	55	23	0.46	0.34†	1.37	1.29	0.36
Galveston	167	53	94	11	3	0.28†	0.26†	0.74	0.65	0.26
Texas City			95	47	10	0.31†	0.08†	3.01	1.47	0.54
Harris	201	24	95	7	0	0.14†	0.18†	0.24†	0.21†	0.09
Aldine										
Harris	201	26	94	15	1	0.14†	0.08†	0.55	0.34†	0.16
Channelview			95	55	2	0.11†	0.08†	0.76	0.67	0.14
Harris	201	64	94	14	6	0.75	0.22†	4.43	1.48	1.16
Houston, Allendale			95	53	17	0.38†	0.18†	4.47	1.72	0.68
Harris	201	803	94	14	6	0.41	0.20†	1.08	1.08	0.37
Houston, Haden			95	57	8	0.25†	0.13†	1.98	1.83	0.39
Harris	201	1035	94	14	8	0.55	0.50	1.70	1.63	0.54
Houston, Clinton			95	60	19	0.38†	0.30†	1.33	1.23	0.27
Jefferson	245	9	94	15	1	0.12†	<.01	0.78	0.36†	0.21
Beaumont			95	61	6	0.09†	<.01	0.74	0.57	0.16
Jefferson	245	11	94	14	3	0.20†	0.11†	0.84	0.41	0.23
Port Arthur			95	58	12	0.24†	0.17†	1.07	1.00	0.25
Jefferson	245	14	94	14	5	0.52	0.35†	3.08	0.94	0.78
Groves			95	53	15	0.44	0.25†	4.09	1.69	0.65
Jefferson	245	17	94	13	0	0.08†	0.04†	0.23†	0.20†	0.08
Nueces	355	20	94	14	3	0.25†	0.17†	1.04	0.51	0.28
Corpus Christi			95	53	8	0.35†	0.15†	4.91	1.99	0.74
Orange	361	1001	94	15	2	0.27†	0.27†	0.74	0.70	0.22
West Orange			95	21	11	0.54	0.40	3.84	0.77	0.79
Smith	423	5	94	15	0	0.04†	<.01	0.19†	0.12†	0.05
Winona			95	18	0	0.02†	<.01	0.19†	0.07†	0.05
Tarrant	439	3002	94	1	0	<.01		<.01		
Grapevine			95	13	0	0.04†	0.02†	0.20†	0.11†	0.06
Tarrant	439	3004	94	3	1	0.53	0.06†	1.52	0.06†	0.86
Irving, DFW Airport			95	6	0	0.03†	0.03†	0.07†	0.05†	0.02
Travis	453	17	94	10	5	0.33†	0.31†	1.02	0.56	0.31
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

t-2-Pentene Data Summary
1992 - 1995

MDL = 0.14

24-Hour ESL = 3,200.00

Annual ESL = 800.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	8	0.13	0.10	0.24	0.22	0.07
San Antonio			95	4	2	0.16	0.14	0.30	0.19	0.11
Brazoria	39	1003	94	14	3	0.04†	<.01	0.16	0.14	0.05
Clute			95	62	3	0.02†	<.01	0.26	0.22	0.05
Cameron	61	6	94	14	4	0.12	<.01	0.59	0.48	0.20
Brownsville			95	57	9	0.07†	<.01	0.66	0.35	0.12
Dallas	113	70	94	14	4	0.10	<.01	0.53	0.45	0.18
Dallas			95	57	7	0.07†	<.01	0.82	0.76	0.17
Ector	135	3	94	14	3	0.05†	<.01	0.23	0.17	0.08
Odessa			95	59	9	0.05†	<.01	0.56	0.40	0.11
Ellis	139	7	94	12	0	0.01†	<.01	0.03†	<.01	0.01
Midlothian			95	58	0	0.01†	<.01	0.03†	0.03†	0.00
El Paso	141	47	94	14	10	0.64	0.26	3.77	1.81	1.03
El Paso			95	55	30	0.27	0.19	2.14	1.23	0.38
Galveston	167	53	94	11	5	0.17	0.02†	0.53	0.49	0.22
Texas City			95	47	19	0.22	0.03†	1.42	1.24	0.34
Harris	201	24	95	7	4	0.23	0.17	0.43	0.40	0.15
Aldine										
Harris	201	26	94	15	5	0.08	<.01	0.41	0.20	0.11
Channelview			95	55	15	0.10†	0.03†	0.63	0.55	0.14
Harris	201	64	94	14	13	0.52	0.18	2.54	1.16	0.68
Houston, Allendale			95	53	26	0.30	0.11†	3.26	1.31	0.52
Harris	201	803	94	14	6	0.15	<.01	0.78	0.55	0.24
Houston, Haden			95	57	24	0.23	0.09†	2.75	1.51	0.45
Harris	201	1035	94	14	7	0.25	0.05†	1.38	0.56	0.39
Houston, Clinton			95	60	36	0.31	0.24	1.28	1.22	0.36
Jefferson	245	9	94	15	2	0.03†	<.01	0.15	0.09	0.04
Beaumont			95	61	6	0.05†	<.01	0.68	0.41	0.11
Jefferson	245	11	94	14	8	0.15	0.09	0.71	0.32	0.19
Port Arthur			95	58	22	0.17	0.08†	1.06	0.87	0.23
Jefferson	245	14	94	14	6	0.24	0.03†	2.00	0.43	0.53
Groves			95	53	23	0.24	0.08†	2.19	1.18	0.40
Jefferson	245	17	94	13	2	0.03†	0.01†	0.14	0.09	0.04
Nueces	355	20	94	14	7	0.14	0.04†	0.77	0.36	0.22
Corpus Christi			95	53	17	0.19	0.06†	2.99	1.35	0.45
Orange	361	1001	94	15	6	0.14	0.05†	0.56	0.56	0.19
West Orange			95	21	12	0.37	0.20	1.99	1.40	0.51
Smith	423	5	94	15	1	0.01†	<.01	0.09	0.02†	0.02
Winona			95	18	0	0.01†	<.01	0.08†	0.04†	0.02
Tarrant	439	3002	94	1	0	<.01		<.01		
Grapevine			95	13	1	0.05†	0.02†	0.40	0.09†	0.11
Tarrant	439	3004	94	3	0	<.01	<.01	<.01	<.01	0.00
Irving, DFW Airport			95	6	0	0.06†	0.05†	0.13†	0.10†	0.05
Travis	453	17	94	10	5	0.15	0.05†	0.65	0.35	0.21
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

Perchloroethylene Data Summary

1992 - 1995

MDL = 0.61

24-Hour ESL = 20.00

Annual ESL = 5.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	0	0.04†	0.03†	0.17†	0.11†	0.04
San Antonio			95	4	0	0.02†	0.02†	0.03†	0.02†	0.01
Brazoria	39	1003	92	7	0	0.02†	<.01	0.11†	<.01	0.04
Clute			93	46	0	0.08†	0.07†	0.18†	0.17†	0.05
			94	53	1	0.08†	0.08†	0.65	0.22†	0.09
			95	62	0	0.03†	0.02†	0.14†	0.09†	0.03
Cameron	61	6	93	19	0	0.07†	0.05†	0.24†	0.14†	0.05
Brownsville			94	59	0	0.04†	0.02†	0.44†	0.28†	0.07
			95	57	0	0.02†	0.01†	0.23†	0.14†	0.04
Dallas	113	70	93	49	0	0.08†	0.07†	0.22†	0.20†	0.05
Dallas			94	58	0	0.08†	0.05†	0.34†	0.25†	0.06
			95	57	0	0.04†	0.03†	0.30†	0.20†	0.05
Ector	135	3	93	52	0	0.05†	0.04†	0.11†	0.10†	0.03
Odessa			94	59	0	0.03†	0.02†	0.17†	0.10†	0.03
			95	59	0	0.01†	0.01†	0.18†	0.04†	0.02
Ellis	139	7	93	55	0	0.09†	0.08†	0.40†	0.20†	0.06
Midlothian			94	51	0	0.04†	0.02†	0.20†	0.13†	0.04
			95	58	0	0.02†	<.01	0.10†	0.10†	0.02
El Paso	141	47	93	33	0	0.10†	0.10†	0.25†	0.18†	0.05
El Paso			94	58	0	0.05†	0.04†	0.15†	0.12†	0.03
			95	55	0	0.03†	0.02†	0.18†	0.15†	0.04
Galveston	167	53	92	9	7	1.34	0.83	5.22	2.15	1.59
Texas City			93	51	3	0.31†	0.30†	2.16	0.69	0.32
			94	51	0	0.06†	0.05†	0.26†	0.14†	0.05
			95	47	0	0.04†	0.02†	0.24†	0.17†	0.05
Harris	201	24	95	7	0	0.01†	0.01†	0.03†	0.02†	0.01
Aldine										
Harris	201	26	92	7	1	0.09†	<.01	0.62	<.01	0.23
Channelview			93	49	0	0.06†	0.06†	0.20†	0.13†	0.04
			94	59	0	0.04†	0.04†	0.20†	0.16†	0.04
			95	55	0	0.03†	0.01†	0.15†	0.13†	0.03
Harris	201	64	93	43	0	0.11†	0.10†	0.44†	0.34†	0.09
Houston, Allendale			94	54	0	0.06†	0.06†	0.20†	0.17†	0.05
			95	53	0	0.03†	0.01†	0.18†	0.16†	0.04
Harris	201	803	92	1	0	<.01	<.01			
Houston, Haden			93	56	2	0.10†	0.06†	1.34	0.67	0.19
			94	58	0	0.06†	0.04†	0.36†	0.27†	0.06
			95	57	0	0.03†	0.02†	0.14†	0.11†	0.03
Harris	201	1035	92	8	0	0.03†	<.01	0.12†	0.09†	0.05
Houston, Clinton			93	50	0	0.07†	0.06†	0.21†	0.18†	0.04
			94	58	1	0.07†	0.04†	1.07	0.40†	0.15
			95	60	0	0.03†	0.02†	0.22†	0.19†	0.04

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Perchloroethylene Data Summary (continued)

Data 1992 - 1995

MDL = 0.61

24-Hour ESL = 20.00

Annual ESL = 5.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Jefferson Beaumont	245 9	92	7	0	0.06†	<.01	0.32†	0.05†	0.12
		93	56	0	0.14†	0.11†	0.59†	0.47†	0.12
		94	59	14	0.30†	0.06†	1.30	1.12	0.34
		95	61	44	0.72	0.76	3.02	0.98	0.38
Jefferson Port Arthur	245 11	92	7	1	0.35†	<.01	2.01	0.38†	0.74
		93	60	0	0.05†	0.05†	0.12†	0.11†	0.03
		94	57	0	0.03†	0.03†	0.09†	0.08†	0.02
		95	58	1	0.03†	<.01	0.85	0.05†	0.11
Jefferson Groves	245 14	93	18	0	0.05†	0.04†	0.14†	0.08†	0.03
		94	58	0	0.04†	0.03†	0.22†	0.17†	0.04
		95	53	0	0.01†	<.01	0.12†	0.04†	0.02
Jefferson Port Neches	245 17	94	23	0	0.03†	0.03†	0.09†	0.06†	0.02
Nueces Corpus Christi	355 20	93	55	1	0.08†	0.06†	0.61	0.34†	0.10
		94	52	0	0.05†	0.03†	0.25†	0.22†	0.05
		95	53	0	0.02†	<.01	0.24†	0.13†	0.04
Orange West Orange	361 1001	94	27	0	0.03†	0.02†	0.12†	0.09†	0.03
		95	21	0	0.03†	0.02†	0.15†	0.06†	0.03
Smith Winona	423 5	94	32	0	0.04†	0.02†	0.36†	0.26†	0.07
		95	18	0	0.01†	0.01†	0.03†	0.02†	0.01
Tarrant Grapevine	439 3002	94	15	0	0.05†	0.03†	0.16†	0.11†	0.05
		95	13	0	0.02†	<.01	0.12†	0.09†	0.04
Tarrant Irving, DFW Airport	439 3004	94	9	0	0.05†	0.05†	0.19†	0.07†	0.06
		95	6	0	0.02†	0.02†	0.05†	0.03†	0.02
Travis Austin	453 17	94	21	0	0.07†	0.05†	0.25†	0.15†	0.06

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

a-Pinene Data Summary

1992 - 1995

MDL = 1.14

24-Hour ESL = 251.00

Annual ESL = 63.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.02†	<.01	0.07†	0.05†	0.02
San Antonio			95	4	0	0.02†	0.02†	0.03†	0.02†	0.01
Brazoria	39	1003	94	14	1	0.21†	<.01	2.69	0.07†	0.71
Clute			95	62	0	0.01†	<.01	0.06†	0.06†	0.01
Cameron	61	6	94	14	1	0.30†	0.09†	1.99	0.66†	0.52
Brownsville			95	57	4	0.28†	0.05†	5.24	2.13	0.77
Dallas	113	70	94	14	1	0.19†	0.03†	2.05	0.15†	0.54
Dallas			95	57	0	0.01†	<.01	0.10†	0.08†	0.02
Ector	135	3	94	14	0	0.02†	<.01	0.11†	0.10†	0.04
Odessa			95	59	0	0.01†	<.01	0.11†	0.05†	0.01
Ellis	139	7	94	12	1	0.09†	<.01	1.02	0.02†	0.29
Midlothian			95	58	0	0.01†	<.01	0.05†	0.04†	0.01
El Paso	141	47	94	14	0	0.01†	<.01	0.09†	<.01	0.02
El Paso			95	55	0	0.01†	<.01	0.07†	0.04†	0.01
Galveston	167	53	94	11	1	0.23†	<.01	2.27	0.13†	0.68
Texas City			95	47	0	0.02†	<.01	0.19†	0.18†	0.04
Harris	201	24	95	7	0	0.05†	0.03†	0.14†	0.09†	0.05
Aldine										
Harris	201	26	94	15	1	0.35†	0.22†	1.65	0.86†	0.44
Channelview			95	55	1	0.11†	0.03†	2.33	0.45†	0.32
Harris	201	64	94	14	0	0.16†	0.09†	0.54†	0.33†	0.14
Houston, Allendale			95	53	0	0.04†	0.01†	0.38†	0.34†	0.08
Harris	201	803	94	14	1	0.26†	0.08†	1.40	0.92†	0.41
Houston, Haden			95	57	0	0.06†	<.01	0.66†	0.35†	0.12
Harris	201	1035	94	14	0	0.15†	0.08†	0.59†	0.51†	0.18
Houston, Clinton			95	60	0	0.06†	<.01	0.34†	0.32†	0.09
Jefferson	245	9	94	15	3	0.57†	0.31†	3.26	1.10	0.80
Beaumont			95	61	9	0.54†	0.43†	1.87	1.47	0.47
Jefferson	245	11	94	14	1	0.16†	0.07†	1.23	0.23†	0.31
Port Arthur			95	58	0	0.02†	<.01	0.13†	0.12†	0.03
Jefferson	245	14	94	14	0	0.06†	0.07†	0.14†	0.13†	0.05
Groves			95	53	0	0.02†	<.01	0.08†	0.08†	0.02
Jefferson	245	17	94	13	3	0.81†	0.65†	3.09	1.96	0.87
Nueces	355	20	94	14	0	0.01†	<.01	0.01†	<.01	0.00
Corpus Christi			95	53	0	0.01†	<.01	0.19†	0.08†	0.03
Orange	361	1001	94	15	0	0.19†	0.15†	0.64†	0.36†	0.16
West Orange			95	21	0	0.11†	0.04†	0.84†	0.33†	0.19
Smith	423	5	94	15	0	0.11†	0.07†	0.42†	0.24†	0.11
Winona			95	18	0	0.05†	0.01†	0.39†	0.20†	0.10
Tarrant	439	3002	94	1	0	0.05†		0.05†		
Grapevine			95	13	0	0.01†	<.01	0.03†	<.01	0.01
Tarrant	439	3004	94	3	1	0.56†	0.05†	1.59	0.05†	0.89
Irving, DFW Airport			95	6	0	0.01†	<.01	0.03†	<.01	0.01
Travis	453	17	94	10	0	0.02†	<.01	0.10†	0.05†	0.03
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

b-Pinene Data Summary
1992 - 1995

MDL = 6.3

24-Hour ESL = 251.00

Annual ESL = 63.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.02†	0.01†	0.04†	0.03†	0.01
San Antonio			95	4	0	<.01	<.01	<.01	<.01	0.00
Brazoria	39	1003	94	14	0	0.02†	0.01†	0.05†	0.03†	0.01
Clute			95	62	0	0.01†	<.01	0.05†	0.03†	0.01
Cameron	61	6	94	14	0	0.14†	0.05†	0.70†	0.69†	0.24
Brownsville			95	57	0	0.11†	0.01†	2.33†	0.93†	0.34
Dallas	113	70	94	14	0	0.03†	0.03†	0.06†	0.06†	0.02
Dallas			95	57	0	0.01†	<.01	0.14†	0.08†	0.02
Ector	135	3	94	14	0	0.01†	<.01	0.01†	0.01†	0.00
Odessa			95	59	0	0.01†	<.01	0.01†	0.01†	0.00
Ellis	139	7	94	12	0	0.02†	0.01†	0.04†	0.03†	0.01
Midlothian			95	58	0	0.01†	<.01	0.07†	0.05†	0.01
El Paso	141	47	94	14	0	0.02†	<.01	0.18†	0.01†	0.05
El Paso			95	55	0	0.01†	<.01	0.01†	0.01†	0.00
Galveston	167	53	94	11	0	0.03†	0.02†	0.09†	0.06†	0.03
Texas City			95	47	0	0.01†	<.01	0.15†	0.11†	0.03
Harris	201	24	95	7	0	0.01†	<.01	0.02†	0.02†	0.01
Aldine										
Harris	201	26	94	15	0	0.18†	0.16†	0.44†	0.43†	0.15
Channelview			95	55	0	0.04†	<.01	0.34†	0.21†	0.06
Harris	201	64	94	14	0	0.13†	0.05†	0.44†	0.38†	0.16
Houston, Allendale			95	53	0	0.02†	<.01	0.21†	0.18†	0.04
Harris	201	803	94	14	2	0.34†	0.07†	2.09	1.07	0.60
Houston, Haden			95	57	0	0.05†	<.01	0.58†	0.56†	0.12
Harris	201	1035	94	14	0	0.09†	0.05†	0.33†	0.29†	0.10
Houston, Clinton			95	60	0	0.03†	<.01	0.25†	0.24†	0.06
Jefferson	245	9	94	15	0	0.23†	0.16†	0.63†	0.58†	0.20
Beaumont			95	61	0	0.13†	<.01	1.05†	0.89†	0.22
Jefferson	245	11	94	14	0	0.05†	0.05†	0.14†	0.12†	0.04
Port Arthur			95	58	0	0.01†	<.01	0.06†	0.05†	0.01
Jefferson	245	14	94	14	0	0.09†	0.07†	0.38†	0.13†	0.10
Groves			95	53	0	0.02†	<.01	0.15†	0.09†	0.03
Jefferson	245	17	94	13	0	0.11†	<.01	0.60†	0.41†	0.19
Port Neches										
Nueces	355	20	94	14	0	0.01†	<.01	0.05†	0.01†	0.01
Corpus Christi			95	53	0	0.01†	<.01	0.02†	0.02†	0.00
Orange	361	1001	94	15	0	0.10†	0.07†	0.35†	0.25†	0.10
West Orange			95	21	0	0.03†	0.01†	0.18†	0.11†	0.04
Smith	423	5	94	15	0	0.07†	0.05†	0.27†	0.22†	0.08
Winona			95	18	0	0.03†	0.01†	0.29†	0.09†	0.07
Tarrant	439	3002	94	1	0	0.02†		0.02†	<.01	0.00
Grapevine			95	13	0	0.01†	<.01	0.02†		
Tarrant	439	3004	94	3	0	0.01†	0.01†	0.01†	0.01†	0.00
Irving, DFW Airport			95	6	0	0.01†	<.01	0.03†	0.01†	0.01
Travis	453	17	94	10	0	0.01†	0.01†	0.03†	0.01†	0.01
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

Propane Data Summary

1992 - 1995

MDL = 1.78

24-Hour ESL = 4,000.00

Annual ESL = 1,000.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	9	2.50	2.70	4.56	4.33	1.32
San Antonio			95	4	2	3.62	3.55	7.38	7.10	4.18
Brazoria	39	1003	94	14	13	2.67	1.64	8.79	6.09	2.36
Clute			95	62	50	5.19	4.32	17.19	13.46	3.97
Cameron	61	6	94	14	11	3.10	1.53	12.39	11.40	3.95
Brownsville			95	57	42	6.54	4.27	51.96	50.15	9.70
Dallas	113	70	94	14	13	2.90	1.88	11.20	5.18	2.81
Dallas			95	57	40	4.08	2.28	23.25	17.54	4.60
Ector	135	3	94	14	14	8.89	5.92	39.87	16.42	10.28
Odessa			95	59	53	18.83	12.69	108.40	62.81	19.01
Ellis	139	7	94	12	10	1.69	1.27	5.65	2.30	1.40
Midlothian			95	58	37	2.90	2.08	15.44	10.57	2.83
El Paso	141	47	94	14	12	8.69	2.80	45.97	27.98	13.02
El Paso			95	55	38	6.11	4.75	31.87	24.13	6.54
Galveston	167	53	94	11	11	3.42	3.85	5.93	5.73	1.76
Texas City			95	47	41	7.30	6.07	24.94	21.92	6.18
Harris	201	24	95	7	7	14.42	9.81	35.93	22.08	11.44
Aldine										
Harris	201	26	94	15	15	4.41	2.70	14.73	12.15	4.11
Channelview			95	55	46	6.61	4.96	37.03	26.52	6.36
Harris	201	64	94	14	14	6.24	3.61	26.16	13.25	6.99
Houston, Allendale			95	53	40	6.08	5.17	21.82	20.62	5.61
Harris	201	803	94	14	14	4.83	3.81	12.93	10.37	3.84
Houston, Haden			95	57	49	9.43	7.68	83.09	30.08	11.57
Harris	201	1035	94	14	13	5.76	3.70	18.65	12.22	5.22
Houston, Clinton			95	60	53	7.53	6.16	36.43	26.14	6.52
Jefferson	245	9	94	15	15	5.07	3.85	16.83	10.11	4.12
Beaumont			95	61	50	13.10	5.81	301.40	50.88	38.71
Jefferson	245	11	94	14	14	8.14	4.54	33.02	17.94	8.86
Port Arthur			95	58	44	6.27	5.32	16.47	15.83	5.02
Jefferson	245	14	94	14	14	18.45	8.44	117.80	30.59	30.09
Groves			95	53	46	11.02	8.95	43.91	33.35	9.18
Jefferson	245	17	94	13	13	3.34	3.47	6.46	5.45	1.92
Nueces	355	20	94	14	11	9.69	4.61	34.64	27.10	11.27
Corpus Christi			95	53	37	14.75	6.64	92.82	62.04	19.08
Orange	361	1001	94	15	15	3.50	2.74	10.29	6.60	2.42
West Orange			95	21	15	4.65	4.46	13.35	10.85	3.91
Smith	423	5	94	15	13	3.47	1.70	13.53	10.10	3.87
Winona			95	18	16	7.31	4.81	30.99	13.01	6.97
Tarrant	439	3002	94	1	1	4.70		4.70		
Grapevine			95	13	11	4.84	3.46	17.48	10.73	4.62
Tarrant	439	3004	94	3	3	1.70	1.66	1.94	1.66	0.22
Irving, DFW Airport			95	6	6	4.10	3.37	7.56	5.81	2.18
Travis	453	17	94	10	9	3.41	2.89	8.61	5.27	2.39
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

n-Propylbenzene Data Summary
1992 - 1995

MDL = 0.93

24-Hour ESL = 80.00

Annual ESL = 20.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.08†	0.07†	0.16†	0.12†	0.04
San Antonio			95	4	0	0.04†	0.03†	0.06†	0.03†	0.02
Brazoria	39	1003	94	14	0	0.03†	0.02†	0.08†	0.05†	0.02
Clute			95	62	0	0.02†	<.01	0.25†	0.15†	0.04
Cameron	61	6	94	14	0	0.07†	0.05†	0.22†	0.22†	0.07
Brownsville			95	57	0	0.04†	0.01†	0.61†	0.18†	0.09
Dallas	113	70	94	14	0	0.06†	0.04†	0.17†	0.15†	0.05
Dallas			95	57	0	0.02†	0.02†	0.10†	0.08†	0.02
Ector	135	3	94	14	0	0.06†	0.05†	0.15†	0.10†	0.04
Odessa			95	59	0	0.02†	0.01†	0.20†	0.14†	0.03
Ellis	139	7	94	12	0	0.02†	0.02†	0.07†	0.03†	0.02
Midlothian			95	58	0	0.01†	<.01	0.09†	0.07†	0.02
El Paso	141	47	94	14	0	0.16†	0.10†	0.57†	0.31†	0.15
El Paso			95	55	0	0.07†	0.06†	0.33†	0.29†	0.07
Galveston	167	53	94	11	0	0.04†	0.04†	0.11†	0.07†	0.03
Texas City			95	47	0	0.02†	0.01†	0.12†	0.10†	0.03
Harris	201	24	95	7	0	0.01†	0.01†	0.04†	0.02†	0.01
Aldine										
Harris	201	26	94	15	0	0.08†	0.04†	0.38†	0.28†	0.11
Channelview			95	55	0	0.04†	0.02†	0.87†	0.23†	0.12
Harris	201	64	94	14	0	0.08†	0.06†	0.19†	0.16†	0.05
Houston, Allendale			95	53	0	0.03†	0.02†	0.13†	0.11†	0.04
Harris	201	803	94	14	0	0.07†	0.06†	0.16†	0.14†	0.05
Houston, Haden			95	57	0	0.04†	0.02†	0.38†	0.17†	0.06
Harris	201	1035	94	14	0	0.09†	0.08†	0.30†	0.13†	0.07
Houston, Clinton			95	60	0	0.05†	0.04†	0.17†	0.16†	0.04
Jefferson	245	9	94	15	0	0.09†	0.09†	0.20†	0.19†	0.05
Beaumont			95	61	0	0.05†	0.05†	0.34†	0.14†	0.05
Jefferson	245	11	94	14	0	0.05†	0.04†	0.21†	0.07†	0.05
Port Arthur			95	58	0	0.03†	0.01†	0.65†	0.08†	0.08
Jefferson	245	14	94	14	0	0.06†	0.05†	0.12†	0.11†	0.03
Groves			95	53	0	0.04†	0.03†	0.13†	0.12†	0.04
Jefferson	245	17	94	13	0	0.08†	0.07†	0.18†	0.16†	0.05
Port Neches										
Nueces	355	20	94	14	0	0.05†	0.04†	0.12†	0.09†	0.03
Corpus Christi			95	53	0	0.03†	0.02†	0.22†	0.13†	0.04
Orange	361	1001	94	15	0	0.04†	0.04†	0.08†	0.07†	0.02
West Orange			95	21	1	0.10†	0.02†	1.18	0.33†	0.26
Smith	423	5	94	15	0	0.05†	0.03†	0.28†	0.06†	0.07
Winona			95	18	0	0.02†	<.01	0.07†	0.05†	0.02
Tarrant	439	3002	94	1	0	0.04†		0.04†		
Grapevine			95	13	0	0.01†	<.01	0.03†	<.01	0.01
Tarrant	439	3004	94	3	0	0.09†	0.10†	0.12†	0.10†	0.04
Irving, DFW Airport			95	6	0	0.01†	0.01†	0.01†	0.01†	0.00
Travis	453	17	94	10	0	0.10†	0.08†	0.20†	0.17†	0.05
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

Propylene Data Summary

1992 - 1995

MDL = 1.34

24-Hour ESL = 26,800.00

Annual ESL = 6,700.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	5	2.02	1.84	3.91	3.59	1.55
San Antonio			95	4	0	<.01	<.01	<.01	<.01	0.00
Brazoria	39	1003	94	14	9	2.69	1.90	9.90	5.93	2.78
Clute			95	62	41	2.41	2.07	9.15	8.05	2.08
Cameron	61	6	94	14	8	2.08	1.38	9.47	4.65	2.57
Brownsville			95	57	13	0.87†	0.09†	5.20	4.35	1.29
Dallas	113	70	94	14	7	1.47	1.15†	7.12	3.24	1.95
Dallas			95	57	8	0.56†	<.01	4.18	2.72	0.87
Ector	135	3	94	14	9	5.65	5.15	17.07	11.59	5.56
Odessa			95	59	40	7.54	4.16	26.63	26.01	7.99
Ellis	139	7	94	12	8	2.03	1.84	5.07	4.15	1.70
Midlothian			95	58	8	0.53†	<.01	2.87	2.30	0.69
El Paso	141	47	94	14	9	2.86	2.15	11.00	6.42	3.16
El Paso			95	55	23	1.84	1.09†	9.18	8.12	2.04
Galveston	167	53	94	11	6	2.27	1.51	6.32	6.30	2.28
Texas City			95	47	35	4.00	3.58	10.90	10.27	3.16
Harris	201	24	95	7	2	1.36	<.01	7.90	1.56	2.94
Aldine										
Harris	201	26	94	15	11	2.72	2.66	8.65	5.44	2.39
Channelview			95	55	45	3.90	3.03	17.75	12.97	3.58
Harris	201	64	94	14	10	6.48	1.94	48.97	9.36	12.61
Houston, Allendale			95	53	34	3.65	2.12	23.65	15.40	4.34
Harris	201	803	94	14	10	2.91	1.67	8.49	7.63	2.76
Houston, Haden			95	57	44	4.89	3.65	47.87	16.97	6.72
Harris	201	1035	94	14	9	2.59	2.33	6.68	5.61	2.20
Houston, Clinton			95	60	44	3.05	2.59	12.12	8.80	2.68
Jefferson	245	9	94	15	11	4.67	2.86	37.33	5.46	9.21
Beaumont			95	61	40	3.41	2.38	60.58	11.75	7.82
Jefferson	245	11	94	14	10	3.98	2.37	14.01	11.22	4.38
Port Arthur			95	58	41	5.85	3.06	39.71	27.94	8.23
Jefferson	245	14	94	14	11	3.81	3.79	13.30	6.22	3.48
Groves			95	53	38	3.88	3.11	18.20	13.74	3.74
Jefferson	245	17	94	13	7	3.77	2.21	19.83	7.30	5.32
Nueces	355	20	94	14	8	13.93	4.28	77.93	41.03	22.07
Corpus Christi			95	53	26	6.32	1.33†	39.36	38.59	9.75
Orange	361	1001	94	15	10	2.53	1.95	10.96	6.36	2.83
West Orange			95	21	15	2.01	1.82	5.00	4.86	1.36
Smith	423	5	94	15	8	1.76	1.49	4.81	3.47	1.49
Winona			95	18	5	1.10†	<.01	7.27	3.37	1.96
Tarrant	439	3002	94	1	0	<.01		<.01		
Grapevine			95	13	0	0.25†	<.01	1.05†	0.99†	0.42
Tarrant	439	3004	94	3	0	<.01	<.01	<.01	<.01	0.00
Irving, DFW Airport			95	6	0	0.49†	0.43†	1.04†	1.00†	0.53
Travis	453	17	94	10	4	1.77	0.49†	9.97	3.19	3.08
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

Styrene Data Summary

1992 - 1995

MDL = 0.90

24-Hour ESL = 80.00

Annual ESL = 20.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	0	0.08†	0.06†	0.63†	0.13†	0.13
San Antonio			95	4	0	0.02†	0.01†	0.07†	0.01†	0.03
Brazoria	39	1003	93	41	0	0.06†	<.01	0.71†	0.70†	0.17
Clute			94	53	1	0.16†	0.07†	1.13	0.69†	0.22
			95	62	1	0.09†	<.01	0.91	0.67†	0.17
Cameron	61	6	93	19	0	0.04†	<.01	0.30†	0.09†	0.07
Brownsville			94	59	1	0.13†	0.07†	1.11	0.84†	0.19
			95	57	0	0.11†	0.02†	0.81†	0.79†	0.21
Dallas	113	70	93	49	0	0.03†	<.01	0.20†	0.18†	0.05
Dallas			94	58	0	0.08†	0.06†	0.48†	0.38†	0.09
			95	57	0	0.03†	<.01	0.35†	0.35†	0.08
Ector	135	3	93	51	8	0.47†	0.06†	4.46	4.40	0.97
Odessa			94	59	13	0.55†	0.18†	4.04	3.03	0.80
			95	59	7	0.43†	0.13†	6.19	2.50	0.96
Ellis	139	7	93	53	0	0.03†	<.01	0.34†	0.12†	0.05
Midlothian			94	51	0	0.06†	0.03†	0.47†	0.23†	0.08
			95	58	0	0.05†	<.01	0.84†	0.43†	0.13
El Paso	141	47	93	33	2	0.15†	<.01	1.06	0.99	0.27
El Paso			94	58	0	0.13†	0.09†	0.77†	0.60†	0.15
			95	55	0	0.02†	<.01	0.23†	0.19†	0.05
Galveston	167	53	93	45	0	0.04†	<.01	0.52†	0.32†	0.10
Texas City			94	51	0	0.17†	0.10†	0.70†	0.58†	0.16
			95	47	0	0.07†	<.01	0.66†	0.63†	0.15
Harris	201	24	95	7	0	0.02†	<.01	0.07†	0.02†	0.02
Aldine										
Harris	201	26	93	43	2	0.28†	0.08†	2.18	1.13	0.43
Channelview			94	59	12	0.70†	0.28†	9.28	2.52	1.31
			95	55	5	0.28†	0.15†	1.68	1.49	0.39
Harris	201	64	93	41	2	0.16†	<.01	1.22	1.07	0.31
Houston, Allendale			94	54	14	0.94	0.35†	9.49	5.45	1.64
			95	53	5	0.30†	0.13†	3.48	1.39	0.55
Harris	201	803	93	51	14	0.77†	0.20†	8.32	7.36	1.58
Houston, Haden			94	58	32	1.74	1.04	11.95	6.25	2.06
			95	57	25	1.52	0.73†	13.53	13.19	2.53
Harris	201	1035	93	44	0	0.12†	<.01	0.84†	0.80†	0.22
Houston, Clinton			94	58	4	0.37†	0.27†	1.72	1.16	0.33
			95	60	2	0.16†	0.06†	1.60	0.94	0.27
Jefferson	245	9	93	49	3	0.22†	0.02†	2.49	1.50	0.46
Beaumont			94	59	23	0.77†	0.20†	5.47	2.31	0.95
			95	61	25	0.87†	0.74†	3.09	2.56	0.70
Jefferson	245	11	93	55	0	0.09†	<.01	0.88†	0.53†	0.17
Port Arthur			94	57	2	0.14†	0.08†	1.33	1.00	0.22
			95	58	0	0.08†	<.01	0.64†	0.45†	0.13
Jefferson	245	14	93	18	0	0.12†	<.01	0.81†	0.71†	0.24
Groves			94	58	9	0.37†	0.16†	2.65	2.04	0.51
			95	53	5	0.33†	0.01†	5.61	3.84	0.94
Jefferson	245	17	94	23	19	6.35	2.33	29.48	28.45	8.05

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Styrene Data Summary (continued)
1992 - 1995

MDL = 0.90

24-Hour ESL = 80.00

Annual ESL = 20.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Nueces Corpus Christi	355	20	93	49	0	<.01	0.50†	0.16†	0.08
		94		52	0	0.05†	0.25†	0.24†	0.06
		95		53	0	0.02†	0.40†	0.16†	0.06
Orange West Orange	361	1001	94	27	1	0.31†	0.23†	0.86†	0.48
		95		21	2	0.55†	0.04†	6.32	1.78
Smith Winona	423	5	94	32	3	0.25†	0.11†	1.66	1.54
		95		18	1	0.11†	<.01	1.76	0.11†
Tarrant Grapevine	439	3002	94	15	0	0.10†	0.09†	0.30†	0.17†
		95		13	0	0.01†	<.01	0.03†	<.01
Tarrant Irving, DFW Airport	439	3004	94	9	0	0.09†	0.06†	0.25†	0.23†
		95		6	0	0.01†	<.01	0.01†	<.01
Travis Austin	453	17	94	21	0	0.11†	0.10†	0.42†	0.28†

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Toluene Data Summary

1992 - 1995

MDL = 0.88

24-Hour ESL = 200.00

Annual ESL = 50.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	17	1.81	1.51	5.45	3.82	1.21
San Antonio			95	4	0	0.60†	0.58†	0.81†	0.69†	0.18
Brazoria	39	1003	92	7	3	0.98	0.66†	2.18	1.74	0.72
Clute			93	46	33	1.51	1.36	4.50	3.79	0.92
			94	53	15	0.65†	0.57†	2.21	1.37	0.43
			95	62	10	0.58†	0.48†	2.75	1.43	0.43
Cameron	61	6	93	19	17	1.59	1.36	3.36	2.90	0.71
Brownsville			94	59	29	1.10	0.87†	4.11	3.16	0.79
			95	57	23	2.03	0.67†	44.20	10.62	6.01
Dallas	113	70	93	49	23	1.14	0.80†	5.56	3.55	0.96
Dallas			94	58	28	1.14	0.81†	4.18	3.67	0.87
			95	57	16	0.79†	0.59†	4.11	2.46	0.70
Ector	135	3	93	52	38	1.52	1.31	4.64	4.47	0.92
Odessa			94	59	34	1.28	1.02	4.03	3.80	0.82
			95	59	14	0.79†	0.60†	4.36	3.68	0.76
Ellis	139	7	93	55	10	0.69†	0.44†	6.70	1.82	0.94
Midlothian			94	51	7	0.42†	0.30†	1.22	1.20	0.30
			95	58	3	0.31†	0.23†	1.36	1.26	0.29
El Paso	141	47	93	33	33	3.97	3.85	7.54	7.27	1.59
El Paso			94	58	54	3.45	2.54	10.90	9.79	2.62
			95	55	48	2.65	2.00	12.73	7.31	2.15
Galveston	167	53	92	9	7	2.88	3.38	6.89	5.69	2.36
Texas City			93	51	33	1.18	1.24	3.07	2.77	0.71
			94	51	34	1.38	1.27	3.41	2.78	0.78
			95	47	23	1.07	0.87†	6.82	2.74	1.06
Harris	201	24	95	7	3	0.91	0.69†	1.69	1.50	0.50
Aldine										
Harris	201	26	92	7	5	1.57	1.68	3.34	1.93	0.98
Channelview			93	49	40	2.00	1.53	8.98	5.20	1.57
			94	59	41	1.56	1.30	7.12	3.95	1.11
			95	55	32	1.22	0.98	5.18	3.52	0.92
Harris	201	64	93	43	40	2.27	1.85	7.40	7.39	1.50
Houston, Allendale			94	54	43	2.00	1.49	6.83	6.46	1.41
			95	53	33	1.41	1.30	3.42	3.34	0.86
Harris	201	803	92	1	0	0.66†		0.66†		
Houston, Haden			93	56	54	2.85	2.28	9.05	7.79	1.96
			94	58	52	2.84	2.45	10.65	7.66	2.01
			95	57	44	3.16	1.67	57.94	11.13	7.64
Harris	201	1035	92	8	8	3.56	2.83	8.56	5.68	2.75
Houston, Clinton			93	50	46	2.88	2.71	8.32	8.15	1.75
			94	58	51	2.52	2.44	5.82	5.44	1.29
			95	60	55	2.07	2.01	5.08	4.25	0.95

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Toluene Data Summary (continued)

1992 - 1995

MDL = 0.88

24-Hour ESL = 200.00

Annual ESL = 50.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Jefferson Beaumont	245 9	92	7	3	0.93	0.69†	2.16	1.51	0.70
		93	56	51	1.91	1.82	6.59	4.07	0.99
		94	59	42	1.45	1.25	8.25	3.40	1.12
		95	61	45	1.28	1.09	9.30	2.46	1.17
Jefferson Port Arthur	245 11	92	7	5	1.39	1.13	3.37	1.92	1.02
		93	60	40	1.53	1.18	7.94	4.80	1.21
		94	57	32	1.30	0.91	6.25	3.39	1.05
		95	58	18	1.08	0.63†	16.10	2.89	2.09
Jefferson Groves	245 14	93	18	16	4.32	2.52	22.87	12.39	5.40
		94	58	46	2.63	1.85	17.26	12.62	2.95
		95	53	40	2.02	1.73	5.89	5.53	1.43
Jefferson Port Neches	245 17	94	23	22	12.13	12.42	32.09	22.38	7.52
Nueces Corpus Christi	355 20	93	55	49	2.91	2.49	14.95	8.41	2.43
		94	52	34	1.49	1.22	5.98	3.97	1.10
		95	53	30	1.31	0.97	6.38	6.15	1.27
Orange West Orange	361 1001	94	27	15	1.15	0.93	3.08	2.80	0.68
		95	21	14	1.36	1.31	2.85	2.28	0.67
Smith Winona	423 5	94	32	6	0.81†	0.58†	4.81	1.94	0.86
		95	18	2	0.36†	0.27†	1.46	1.04	0.37
Tarrant Grapevine	439 3002	94	15	10	1.10	1.04	2.10	1.62	0.45
		95	13	2	0.56†	0.39†	2.06	1.10	0.53
Tarrant Irving, DFW Airport	439 3004	94	9	6	1.43	1.20	3.25	2.62	1.02
		95	6	0	0.39†	0.40†	0.47†	0.42†	0.07
Travis Austin	453 17	94	21	14	1.28	1.21	2.76	2.46	0.63

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Trichloroethylene Data Summary

1992 - 1995

MDL = 0.60

24-Hour ESL = 100.00

Annual ESL = 25.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	4	0.30†	0.11†	1.80	1.33	0.50
San Antonio			95	4	0	0.02†	0.02†	0.03†	0.03†	0.01
Brazoria	39	1003	92	7	0	0.03†	<.01	0.15†	0.04†	0.05
Clute			93	46	1	0.15†	0.03†	3.14	0.47†	0.47
			94	53	0	0.08†	0.05†	0.27†	0.25†	0.08
			95	62	0	0.03†	0.01†	0.32†	0.16†	0.05
Cameron	61	6	93	19	0	0.03†	0.02†	0.08†	0.05†	0.02
Brownsville			94	59	0	0.03†	0.02†	0.45†	0.13†	0.06
			95	57	1	0.05†	<.01	1.87	0.17†	0.25
Dallas	113	70	93	49	0	0.05†	0.03†	0.22†	0.17†	0.04
Dallas			94	58	0	0.04†	0.03†	0.18†	0.16†	0.04
			95	57	0	0.02†	0.01†	0.15†	0.09†	0.03
Ector	135	3	93	52	0	0.04†	0.02†	0.19†	0.19†	0.05
Odessa			94	59	0	0.05†	0.03†	0.22†	0.18†	0.05
			95	59	1	0.04†	<.01	0.85	0.09†	0.11
Ellis	139	7	93	55	0	0.04†	0.02†	0.40†	0.16†	0.06
Midlothian			94	51	1	0.06†	0.02†	0.93	0.33†	0.14
			95	58	0	0.02†	<.01	0.36†	0.11†	0.05
El Paso	141	47	93	33	0	0.09†	0.08†	0.29†	0.22†	0.07
El Paso			94	58	1	0.29†	0.05†	12.45	0.51†	1.63
			95	55	0	0.04†	0.01†	0.33†	0.22†	0.06
Galveston	167	53	92	9	1	0.19†	<.01	1.69	0.02†	0.56
Texas City			93	51	1	0.07†	0.03†	0.61	0.42†	0.12
			94	51	0	0.05†	0.04†	0.29†	0.20†	0.06
			95	47	1	0.04†	0.01†	0.78	0.21†	0.12
Harris	201	24	95	7	0	<.01	<.01	<.01	<.01	0.00
Aldine										
Harris	201	26	92	7	0	0.02†	<.01	0.09†	<.01	0.03
Channelview			93	49	0	0.06†	0.03†	0.38†	0.25†	0.07
			94	59	0	0.05†	0.03†	0.44†	0.18†	0.07
			95	55	0	0.01†	<.01	0.09†	0.09†	0.02
Harris	201	64	93	43	0	0.06†	0.04†	0.46†	0.26†	0.08
Houston, Allendale			94	54	1	0.08†	0.04†	1.39	0.44†	0.19
			95	53	0	0.01†	<.01	0.07†	0.07†	0.02
Harris	201	803	92	1	0	0.07†		0.07†		
Houston, Haden	93		94	58	0.10†	0.02†	2.44	0.95	0.36	
			95	57	2	1.01	0.03†	51.01	4.23	6.70
					0	0.02†	<.01	0.20†	0.10†	0.03
Harris	201	1035	92	8	1	0.29†	0.04†	1.64	0.29†	0.56
Houston, Clinton			93	50	0	0.06†	0.03†	0.53†	0.37†	0.09
			94	58	1	0.06†	0.03†	0.92	0.38†	0.13
			95	60	0	0.02†	0.01†	0.20†	0.12†	0.03

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Trichloroethylene Data Summary (continued)

1992 - 1995

MDL = 0.60

24-Hour ESL = 100.00

Annual ESL = 25.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Jefferson Beaumont	245 9	92	7	0	<.01	<.01	<.01	<.01	0.00
		93	56	1	0.07†	0.03†	1.70	0.15†	0.23
		94	59	3	0.11†	0.03†	1.68	1.07	0.27
		95	61	0	0.03†	0.02†	0.43†	0.27†	0.06
Jefferson Port Arthur	245 11	92	7	0	0.05†	<.01	0.15†	0.11†	0.06
		93	60	2	0.17†	0.02†	7.60	0.63	0.98
		94	57	0	0.05†	0.03†	0.34†	0.27†	0.07
		95	58	0	0.01†	<.01	0.13†	0.03†	0.02
Jefferson Groves	245 14	93	18	0	0.03†	0.02†	0.16†	0.11†	0.04
		94	58	1	0.08†	0.02†	1.16	0.57†	0.19
		95	53	0	0.01†	<.01	0.13†	0.05†	0.02
Jefferson Port Neches	245 17	94	23	0	0.05†	0.03†	0.19†	0.15†	0.05
Nueces Corpus Christi	355 20	93	55	2	0.33†	0.03†	12.76	1.80	1.73
		94	52	2	0.07†	0.03†	0.81	0.74	0.15
		95	53	1	0.05†	<.01	1.84	0.21†	0.25
Orange West Orange	361 1001	94	27	0	0.06†	0.03†	0.35†	0.18†	0.07
		95	21	0	0.04†	0.02†	0.33†	0.15†	0.07
Smith Winona	423 5	94	32	1	0.08†	0.03†	0.79	0.34†	0.15
		95	18	0	0.01†	<.01	0.02†	0.01†	0.00
Tarrant Grapevine	439 3002	94	15	0	0.06†	0.04†	0.29†	0.12†	0.07
		95	13	0	0.01†	<.01	0.01†	0.01†	0.00
Tarrant Irving, DFW Airport	439 3004	94	9	0	0.01†	0.01†	0.03†	0.02†	0.01
		95	6	0	0.01†	<.01	0.01†	0.01†	0.00
Travis Austin	453 17	94	21	0	0.05†	0.02†	0.38†	0.09†	0.08

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Trichlorofluoromethane Data Summary

1992 - 1995

MDL = 0.40

24-Hour ESL = 4,000.00

Annual ESL = 1,000.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	1	0.38†	0.27†	2.63	0.35†	0.52
San Antonio			95	4	0	0.23†	0.26†	0.27†	0.27†	0.06
Brazoria	39	1003	92	7	0	0.04†	<.01	0.28†	<.01	0.10
Clute			93	46	3	0.24†	0.26†	0.48	0.46	0.10
			94	53	1	0.22†	0.24†	0.42	0.32†	0.08
			95	62	0	0.26†	0.26†	0.33†	0.33†	0.06
Cameron	61	6	93	19	2	0.32†	0.29†	0.72	0.40	0.11
Brownsville			94	59	1	0.24†	0.25†	0.58	0.36†	0.08
			95	57	1	0.25†	0.26†	0.65	0.39†	0.09
Dallas	113	70	93	49	6	0.31†	0.28†	0.85	0.66	0.12
Dallas			94	58	1	0.24†	0.26†	0.66	0.32†	0.10
			95	57	2	0.27†	0.26†	0.72	0.47	0.10
Ector	135	3	93	52	5	0.28†	0.26†	0.48	0.45	0.07
Odessa			94	59	0	0.22†	0.24†	0.39†	0.31†	0.08
			95	59	0	0.23†	0.26†	0.33†	0.32†	0.08
Ellis	139	7	93	55	5	0.29†	0.26†	1.45	0.45	0.17
Midlothian			94	51	1	0.31†	0.24†	5.85	0.30†	0.80
			95	58	1	0.23†	0.25†	0.40	0.32†	0.09
El Paso	141	47	93	33	2	0.31†	0.29†	0.44	0.41	0.05
El Paso			94	58	0	0.26†	0.26†	0.38†	0.37†	0.03
			95	55	2	0.26†	0.26†	0.53	0.49	0.08
Galveston	167	53	92	9	1	0.18†	0.15†	0.48	0.39†	0.17
Texas City			93	51	4	0.32†	0.25†	3.80	1.15	0.53
			94	51	2	0.27†	0.25†	1.98	0.56	0.26
			95	47	1	0.25†	0.25†	1.07	0.33†	0.14
Harris	201	24	95	7	0	0.28†	0.28†	0.34†	0.31†	0.03
Aldine										
Harris	201	26	92	7	1	0.08†	<.01	0.42	0.07†	0.15
Channelview			93	49	27	0.52	0.40	4.10	2.04	0.63
			94	59	7	0.36†	0.28†	3.96	0.71	0.49
			95	55	0	0.23†	0.25†	0.38†	0.38†	0.10
Harris	201	64	93	43	10	0.38†	0.30†	3.30	0.63	0.47
Houston, Allendale			94	54	0	0.22†	0.25†	0.39†	0.35†	0.10
			95	53	2	0.24†	0.26†	0.51	0.40	0.10
Harris	201	803	92	1	0	<.01	<.01			
Houston, Haden			93	56	6	0.32†	0.28†	2.80	0.80	0.36
			94	58	30	0.69	0.42	6.07	2.06	0.89
			95	57	54	0.62	0.59	1.14	1.11	0.23
Harris	201	1035	92	8	1	0.08†	<.01	0.44	0.13†	0.15
Houston, Clinton			93	50	5	0.39†	0.27†	5.28	1.65	0.74
			94	58	1	0.23†	0.25†	0.59	0.37†	0.10
			95	60	1	0.26†	0.26†	0.43	0.38†	0.08

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Trichlorofluoromethane Data Summary (continued)
1992 - 1995

MDL = 0.40

24-Hour ESL = 4,000.00

Annual ESL = 1,000.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Jefferson Beaumont	245 9	92	7	0	0.01†	<.01	0.02†	<.01	0.01
		93	55	13	0.35†	0.30†	1.50	1.11	0.25
		94	59	2	0.26†	0.26†	0.51	0.42	0.07
		95	61	3	0.27†	0.27†	1.10	0.42	0.14
Jefferson Port Arthur	245 11	92	7	1	0.17†	<.01	1.18	<.01	0.44
		93	60	7	0.28†	0.26†	0.76	0.52	0.11
		94	57	0	0.22†	0.24†	0.31†	0.30†	0.08
		95	58	1	0.24†	0.25†	0.61	0.32†	0.09
Jefferson Groves	245 14	93	18	1	0.29†	0.28†	0.46	0.38†	0.05
		94	58	1	0.34†	0.26†	5.86	0.33†	0.74
		95	52	0	0.24†	0.26†	0.36†	0.33†	0.08
Jefferson Port Neches	245 17	94	23	20	1.93	1.93	5.30	4.27	1.18
Nueces Corpus Christi	355 20	93	55	9	0.28†	0.27†	0.67	0.56	0.12
		94	52	2	0.26†	0.25†	1.37	0.41	0.17
		95	53	3	0.25†	0.26†	0.45	0.41	0.10
Orange West Orange	361 1001	94	27	1	0.67	0.27†	11.73	0.35†	2.21
		95	21	0	0.19†	0.23†	0.36†	0.33†	0.11
Smith Winona	423 5	94	32	2	0.26†	0.24†	0.85	0.52	0.14
		95	18	0	0.27†	0.28†	0.36†	0.33†	0.06
Tarrant Grapevine	439 3002	94	15	0	0.25†	0.25†	0.28†	0.28†	0.03
		95	13	0	0.25†	0.25†	0.33†	0.31†	0.04
Tarrant Irving, DFW Airport	439 3004	94	9	0	0.25†	0.25†	0.32†	0.31†	0.05
		95	6	0	0.26†	0.26†	0.29†	0.29†	0.03
Travis Austin	453 17	94	21	0	0.25†	0.24†	0.37†	0.32†	0.05

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

1,1,2-Trichloroethane Data Summary
1992 - 1995

MDL = 0.18

24-Hour ESL = 40.00

Annual ESL = 10.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	95	4	0	<.01	<.01	<.01	<.01	0.00
San Antonio										
Brazoria	39	1003	95	48	0	<.01	<.01	<.01	<.01	0.00
Clute										
Cameron	61	6	95	43	0	<.01	<.01	<.01	<.01	0.00
Brownsville										
Dallas	113	70	95	43	0	<.01	<.01	<.01	<.01	0.00
Dallas										
Ector	135	3	95	44	0	<.01	<.01	<.01	<.01	0.00
Odessa										
Ellis	139	7	95	43	0	<.01	<.01	<.01	<.01	0.00
Midlothian										
El Paso	141	47	95	42	0	<.01	<.01	<.01	<.01	0.00
El Paso										
Galveston	167	53	95	35	0	<.01	<.01	<.01	<.01	0.00
Texas City										
Harris	201	24	95	7	0	<.01	<.01	<.01	<.01	0.00
Aldine										
Harris	201	26	95	42	0	<.01	<.01	<.01	<.01	0.00
Channelview										
Harris	201	64	95	41	0	<.01	<.01	<.01	<.01	0.00
Houston, Allendale										
Harris	201	803	95	43	0	<.01	<.01	<.01	<.01	0.00
Houston, Haden										
Harris	201	1035	95	46	0	<.01	<.01	<.01	<.01	0.00
Houston, Clinton										
Jefferson	245	9	95	46	0	<.01	<.01	<.01	<.01	0.00
Beaumont										
Jefferson	245	11	95	43	0	<.01	<.01	<.01	<.01	0.00
Port Arthur										
Jefferson	245	14	95	40	0	<.01	<.01	<.01	<.01	0.00
Nueces	355	20	95	38	0	<.01	<.01	<.01	<.01	0.00
Corpus Christi										
Orange	361	1001	95	7	0	<.01	<.01	<.01	<.01	0.00
West Orange										
Smith	423	5	95	14	0	<.01	<.01	<.01	<.01	0.00
Winona										
Tarrant	439	3002	95	13	0	<.01	<.01	<.01	<.01	0.00
Grapevine										
Tarrant	439	3004	95	6	0	<.01	<.01	<.01	<.01	0.00
Irving, DFW Airport										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

1,2,4-Trimethylbenzene Data Summary

1992 - 1995

MDL = 1.42

24-Hour ESL = 100.00

Annual ESL = 25.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.54†	0.49†	0.91†	0.79†	0.25
San Antonio			95	4	0	0.15†	0.14†	0.30†	0.15†	0.11
Brazoria	39	1003	94	14	0	0.22†	0.18†	0.51†	0.40†	0.13
Clute			95	62	0	0.12†	0.06†	0.83†	0.70†	0.17
Cameron	61	6	94	14	2	0.61†	0.37†	2.11	1.88	0.65
Brownsville			95	57	1	0.32†	0.17†	3.14	1.31†	0.48
Dallas	113	70	94	14	0	0.45†	0.33†	1.13†	1.00†	0.33
Dallas			95	57	0	0.18†	0.10†	0.99†	0.79†	0.21
Ector	135	3	94	14	0	0.31†	0.25†	0.84†	0.63†	0.21
Odessa			95	59	0	0.14†	0.10†	1.30†	0.59†	0.20
Ellis	139	7	94	12	0	0.17†	0.16†	0.30†	0.25†	0.08
Midlothian			95	58	0	0.08†	<.01	0.80†	0.56†	0.15
El Paso	141	47	94	14	4	1.03†	0.67†	3.00	1.97	0.84
El Paso			95	55	3	0.52†	0.37†	2.78	2.19	0.53
Galveston	167	53	94	11	0	0.31†	0.29†	0.59†	0.57†	0.20
Texas City			95	47	0	0.18†	0.12†	0.72†	0.55†	0.16
Harris	201	24	95	7	0	0.13†	0.08†	0.45†	0.14†	0.15
Aldine										
Harris	201	26	94	15	2	0.57†	0.26†	2.49	2.16	0.73
Channelview			95	55	1	0.26†	0.14†	2.22	1.33†	0.38
Harris	201	64	94	14	0	0.56†	0.49†	1.27†	1.18†	0.37
Houston, Allendale			95	53	0	0.29†	0.21†	1.32†	1.15†	0.30
Harris	201	803	94	14	0	0.59†	0.48†	1.28†	1.23†	0.36
Houston, Haden			95	57	2	0.36†	0.20†	3.37	1.82	0.54
Harris	201	1035	94	14	1	0.58†	0.42†	2.24	0.98†	0.55
Houston, Clinton			95	60	3	0.38†	0.29†	1.55	1.52	0.35
Jefferson	245	9	94	15	0	0.64†	0.59†	1.35†	1.23†	0.33
Beaumont			95	61	1	0.37†	0.20†	4.20	1.25†	0.58
Jefferson	245	11	94	14	1	0.37†	0.28†	1.92	0.39†	0.46
Port Arthur			95	58	1	0.30†	0.12†	8.78	0.75†	1.14
Jefferson	245	14	94	14	0	0.28†	0.26†	0.63†	0.61†	0.20
Groves			95	53	0	0.25†	0.17†	0.83†	0.74†	0.23
Jefferson	245	17	94	13	0	0.32†	0.26†	0.67†	0.63†	0.18
Nueces	355	20	94	14	0	0.37†	0.32†	1.05†	0.57†	0.25
Corpus Christi			95	53	1	0.32†	0.22†	1.56	1.09†	0.33
Orange	361	1001	94	15	0	0.30†	0.28†	0.65†	0.63†	0.18
West Orange			95	21	0	0.40†	0.35†	1.18†	0.87†	0.31
Smith	423	5	94	15	0	0.20†	0.17†	0.46†	0.39†	0.12
Winona			95	18	0	0.09†	0.01†	0.47†	0.46†	0.15
Tarrant	439	3002	94	1	0	0.38†		0.38†		0.07
Grapevine			95	13	0	0.05†	0.03†	0.25†	0.09†	
Tarrant	439	3004	94	3	0	0.50†	0.50†	0.67†	0.50†	0.17
Irving, DFW Airport			95	6	0	0.03†	0.04†	0.05†	0.04†	0.02
Travis	453	17	94	10	0	0.71†	0.61†	1.25†	1.06†	0.27
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

1,3,5-Trimethylbenzene Data Summary

1992 - 1995

MDL = 0.86

24-Hour ESL = 100.00

Annual ESL = 25.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	1	0.39†	0.35†	0.89	0.52†	0.23
San Antonio			95	4	0	0.04†	0.04†	0.08†	0.04†	0.03
Brazoria	39	1003	94	14	0	0.09†	0.07†	0.17†	0.15†	0.05
Clute			95	62	0	0.06†	0.01†	0.40†	0.34†	0.09
Cameron	61	6	94	14	0	0.25†	0.19†	0.81†	0.72†	0.24
Brownsville			95	57	0	0.10†	0.04†	0.51†	0.48†	0.13
Dallas	113	70	94	14	0	0.21†	0.14†	0.48†	0.47†	0.14
Dallas			95	57	0	0.07†	0.04†	0.45†	0.45†	0.10
Ector	135	3	94	14	0	0.17†	0.15†	0.34†	0.33†	0.10
Odessa			95	59	0	0.07†	0.02†	0.66†	0.60†	0.12
Ellis	139	7	94	12	0	0.08†	0.07†	0.22†	0.11†	0.05
Midlothian			95	58	0	0.03†	<.01	0.17†	0.17†	0.04
El Paso	141	47	94	14	1	0.41†	0.33†	1.03	0.77†	0.30
El Paso			95	55	4	0.19†	0.10†	1.40	1.07	0.29
Galveston	167	53	94	11	0	0.15†	0.17†	0.31†	0.25†	0.09
Texas City			95	47	0	0.06†	0.05†	0.23†	0.22†	0.06
Harris	201	24	95	7	0	0.03†	0.01†	0.08†	0.05†	0.03
Aldine										
Harris	201	26	94	15	1	0.30†	0.15†	2.16	0.80†	0.55
Channelview			95	55	2	0.13†	0.05†	1.13	0.98	0.22
Harris	201	64	94	14	0	0.25†	0.22†	0.51†	0.51†	0.15
Houston, Allendale			95	53	0	0.11†	0.06†	0.76†	0.68†	0.16
Harris	201	803	94	14	0	0.28†	0.27†	0.74†	0.48†	0.18
Houston, Haden			95	57	2	0.17†	0.08†	1.83	0.97	0.28
Harris	201	1035	94	14	1	0.31†	0.21†	0.99	0.84†	0.31
Houston, Clinton			95	60	0	0.16†	0.10†	0.82†	0.81†	0.20
Jefferson	245	9	94	15	0	0.32†	0.27†	0.76†	0.62†	0.17
Beaumont			95	61	3	0.19†	0.08†	2.78	1.33	0.41
Jefferson	245	11	94	14	0	0.16†	0.13†	0.38†	0.30†	0.09
Port Arthur			95	58	1	0.25†	0.04†	9.91	0.65†	1.30
Jefferson	245	14	94	14	0	0.20†	0.18†	0.61†	0.37†	0.16
Groves			95	53	1	0.12†	0.05†	1.17	0.33†	0.18
Jefferson	245	17	94	13	0	0.27†	0.23†	0.50†	0.44†	0.12
Nueces	355	20	94	14	1	0.21†	0.11†	0.93	0.50†	0.24
Corpus Christi			95	53	1	0.12†	0.05†	0.99	0.61†	0.19
Orange	361	1001	94	15	0	0.21†	0.16†	0.67†	0.34†	0.15
West Orange			95	21	2	0.24†	0.12†	1.15	1.00	0.31
Smith	423	5	94	15	0	0.20†	0.19†	0.46†	0.41†	0.14
Winona			95	18	0	0.06†	<.01	0.30†	0.26†	0.10
Tarrant	439	3002	94	1	0	0.14†		0.14†		
Grapevine			95	13	0	0.01†	<.01	0.05†	0.03†	0.01
Tarrant	439	3004	94	3	0	0.32†	0.14†	0.71†	0.14†	0.34
Irving, DFW Airport			95	6	0	0.01†	0.01†	0.01†	0.01†	0.00
Travis	453	17	94	10	0	0.27†	0.23†	0.56†	0.32†	0.12
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

2,2,4-Trimethylpentane Data Summary

1992 - 1995

MDL = 0.34

24-Hour ESL = 300.00

Annual ESL = 75.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	95	4	0	0.16†	0.17†	0.18†	0.17†	0.02
San Antonio										
Brazoria	39	1003	95	48	7	0.20†	0.07†	1.82	1.01	0.35
Clute										
Cameron	61	6	95	43	5	0.13†	<.01	2.35	0.64	0.38
Brownsville										
Dallas	113	70	95	43	4	0.12†	0.06†	1.02	0.92	0.21
Dallas										
Ector	135	3	95	44	2	0.10†	0.06†	0.53	0.52	0.12
Odessa										
Ellis	139	7	95	43	0	0.02†	<.01	0.16†	0.06†	0.03
Midlothian										
El Paso	141	47	95	42	24	0.47	0.40	1.57	1.36	0.42
El Paso										
Galveston	167	53	95	35	4	0.17†	0.10†	0.64	0.48	0.16
Texas City										
Harris	201	24	95	7	1	0.18†	0.18†	0.35	0.25†	0.10
Aldine										
Harris	201	26	95	42	5	0.15†	0.13†	1.11	0.45	0.20
Channelview										
Harris	201	64	95	41	4	0.13†	0.08†	0.44	0.42	0.14
Houston, Allendale										
Harris	201	803	95	43	6	0.14†	0.08†	1.05	0.49	0.20
Houston, Haden										
Harris	201	1035	95	46	11	0.22†	0.24†	0.97	0.56	0.19
Houston, Clinton										
Jefferson	245	9	95	46	4	0.14†	0.11†	0.62	0.59	0.16
Beaumont										
Jefferson	245	11	95	43	3	0.13†	0.06†	0.82	0.40	0.16
Port Arthur										
Jefferson	245	14	95	40	13	0.38	0.19†	2.77	1.97	0.57
Groves										
Nueces	355	20	95	38	4	0.12†	0.09†	0.51	0.44	0.14
Corpus Christi										
Orange	361	1001	95	7	1	0.13†	<.01	0.84	0.07†	0.31
West Orange										
Smith	423	5	95	14	0	0.03†	0.01†	0.12†	0.07†	0.03
Winona										
Tarrant	439	3002	95	13	1	0.08†	0.06†	0.39	0.18†	0.10
Grapevine										
Tarrant	439	3004	95	6	0	0.08†	0.07†	0.13†	0.09†	0.03
Irving, DFW Airport										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

2,3,4-Trimethylpentane Data Summary

1992 - 1995

MDL = 0.59

24-Hour ESL = 300.00

Annual ESL = 75.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.07†	0.09†	0.10†	0.10†	0.04
San Antonio			95	4	0	0.05†	0.05†	0.06†	0.05†	0.01
Brazoria	39	1003	94	14	0	0.10†	0.06†	0.29†	0.17†	0.07
Clute			95	62	2	0.09†	0.02†	0.68	0.65	0.15
Cameron	61	6	94	14	0	0.09†	0.06†	0.37†	0.28†	0.11
Brownsville			95	57	0	0.04†	<.01	0.50†	0.28†	0.08
Dallas	113	70	94	14	0	0.17†	0.11†	0.52†	0.42†	0.15
Dallas			95	57	0	0.05†	0.01†	0.27†	0.26†	0.07
Ector	135	3	94	14	0	0.05†	0.02†	0.16†	0.14†	0.06
Odessa			95	59	0	0.03†	<.01	0.48†	0.30†	0.08
Ellis	139	7	94	12	0	0.04†	0.03†	0.09†	0.08†	0.03
Midlothian			95	58	0	0.01†	<.01	0.06†	0.06†	0.01
El Paso	141	47	94	14	4	0.46†	0.27†	1.83	1.19	0.51
El Paso			95	55	0	0.14†	0.13†	0.47†	0.39†	0.11
Galveston	167	53	94	11	0	0.18†	0.19†	0.50†	0.27†	0.14
Texas City			95	47	0	0.06†	0.01†	0.32†	0.26†	0.08
Harris	201	24	95	7	0	0.03†	0.02†	0.12†	0.04†	0.04
Aldine										
Harris	201	26	94	15	1	0.16†	0.10†	0.64	0.46†	0.18
Channelview			95	55	1	0.06†	0.02†	0.93	0.40†	0.14
Harris	201	64	94	14	1	0.21†	0.15†	0.71	0.45†	0.19
Houston, Allendale			95	53	0	0.06†	0.03†	0.40†	0.29†	0.08
Harris	201	803	94	14	0	0.17†	0.08†	0.44†	0.35†	0.13
Houston, Haden			95	57	1	0.08†	0.03†	1.53	0.35†	0.21
Harris	201	1035	94	14	1	0.24†	0.18†	0.73	0.41†	0.18
Houston, Clinton			95	60	1	0.10†	0.08†	1.02	0.35†	0.14
Jefferson	245	9	94	15	0	0.14†	0.12†	0.38†	0.31†	0.10
Beaumont			95	61	0	0.05†	0.04†	0.23†	0.22†	0.05
Jefferson	245	11	94	14	1	0.12†	0.07†	0.82	0.18†	0.21
Port Arthur			95	58	1	0.05†	<.01	0.69	0.17†	0.10
Jefferson	245	14	94	14	2	0.40†	0.22†	2.38	1.07	0.64
Groves			95	53	4	0.15†	0.07†	1.89	0.88	0.30
Jefferson	245	17	94	13	1	0.66	0.05†	8.01	0.10†	2.21
Nueces	355	20	94	14	0	0.09†	0.07†	0.48†	0.15†	0.12
Corpus Christi			95	53	0	0.05†	<.01	0.37†	0.25†	0.08
Orange	361	1001	94	15	0	0.11†	0.11†	0.33†	0.20†	0.09
West Orange			95	21	0	0.09†	0.04†	0.34†	0.28†	0.10
Smith	423	5	94	15	0	0.03†	0.03†	0.09†	0.07†	0.03
Winona			95	18	0	0.02†	<.01	0.16†	0.04†	0.04
Tarrant	439	3002	94	1	0	0.12†		0.12†		
Grapevine			95	13	0	0.01†	<.01	0.05†	0.01†	0.01
Tarrant	439	3004	94	3	0	0.09†	0.10†	0.10†	0.10†	0.02
Irving, DFW Airport			95	6	0	0.02†	0.02†	0.04†	0.03†	0.01
Travis	453	17	94	10	0	0.20†	0.20†	0.50†	0.27†	0.13
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

n-Undecane Data Summary
1992 - 1995

MDL = 5.04

24-Hour ESL = 400.00

Annual ESL = 100.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	9	0	0.14†	<.01	0.62†	0.56†	0.26
San Antonio			95	4	0	0.03†	0.03†	0.04†	0.03†	0.01
Brazoria	39	1003	94	14	0	0.01†	<.01	0.07†	<.01	0.02
Clute			95	62	0	0.03†	<.01	0.40†	0.37†	0.08
Cameron	61	6	94	14	0	0.03†	<.01	0.18†	0.10†	0.05
Brownsville			95	57	0	0.05†	<.01	0.71†	0.30†	0.11
Dallas	113	70	94	14	0	0.02†	<.01	0.10†	0.08†	0.03
Dallas			95	57	0	0.02†	<.01	0.11†	0.09†	0.03
Ector	135	3	94	14	0	0.02†	<.01	0.12†	0.04†	0.03
Odessa			95	59	0	0.03†	<.01	0.40†	0.22†	0.07
Ellis	139	7	94	12	0	<.01	<.01	<.01	<.01	0.00
Midlothian			95	58	0	0.02†	<.01	0.23†	0.19†	0.04
El Paso	141	47	94	14	0	0.10†	<.01	1.27†	0.09†	0.34
El Paso			95	55	0	0.06†	0.03†	0.46†	0.25†	0.08
Galveston	167	53	94	11	0	0.08†	<.01	0.83†	<.01	0.25
Texas City			95	47	0	0.06†	<.01	1.48†	0.27†	0.22
Harris	201	24	95	7	0	0.01†	<.01	0.02†	0.01†	0.01
Aldine										
Harris	201	26	94	15	1	0.48†	<.01	6.91	0.16†	1.78
Channelview			95	55	0	0.03†	<.01	0.16†	0.15†	0.04
Harris	201	64	94	14	0	0.03†	<.01	0.31†	<.01	0.08
Houston, Allendale			95	53	0	0.04†	<.01	0.29†	0.19†	0.06
Harris	201	803	94	14	0	0.04†	<.01	0.49†	<.01	0.13
Houston, Haden			95	57	0	0.05†	<.01	0.44†	0.22†	0.07
Harris	201	1035	94	14	0	0.05†	<.01	0.36†	0.26†	0.11
Houston, Clinton			95	60	0	0.06†	0.02†	0.43†	0.26†	0.09
Jefferson	245	9	94	15	0	0.09†	<.01	0.76†	0.57†	0.23
Beaumont			95	61	0	0.08†	0.06†	0.34†	0.30†	0.09
Jefferson	245	11	94	14	0	0.15†	<.01	2.01†	<.01	0.54
Port Arthur			95	58	0	0.05†	<.01	0.52†	0.38†	0.10
Jefferson	245	14	94	14	0	0.07†	<.01	0.57†	0.31†	0.17
Groves			95	53	0	0.07†	0.01†	0.38†	0.32†	0.09
Jefferson	245	17	94	13	0	0.20†	<.01	2.30†	0.26†	0.63
Port Neches										
Nueces	355	20	94	14	0	0.03†	<.01	0.20†	0.11†	0.06
Corpus Christi			95	53	0	0.07†	<.01	2.56†	0.13†	0.35
Orange	361	1001	94	15	0	0.02†	<.01	0.29†	<.01	0.07
West Orange			95	21	0	0.02†	<.01	0.10†	0.09†	0.03
Smith	423	5	94	15	1	0.80†	<.01	11.46	0.46†	2.95
Winona			95	18	0	0.01†	<.01	0.01†	0.01†	0.00
Tarrant	439	3002	94	1	0	<.01		<.01		0.02
Grapevine			95	13	0	0.01†	<.01	0.06†	0.01†	
Tarrant	439	3004	94	3	0	0.07†	<.01	0.21†	<.01	0.12
Irving, DFW Airport			95	6	0	0.01†	<.01	0.02†	<.01	0.01
Travis	453	17	94	10	0	0.04†	<.01	0.23†	0.14†	0.08
Austin										

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit
* = Mean is greater than the annual ESL
** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)
Values in parts per billion by volume (ppbv)
ESL = Effects Screening Levels

Vinyl Chloride Data Summary

1992 - 1995

MDL = 0.45

24-Hour ESL = 20.00

Annual ESL = 5.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	0	<.01	<.01	<.01	<.01	0.00
San Antonio			95	4	0	0.01†	0.01†	0.01†	0.01†	0.00
Brazoria	39	1003	92	7	0	<.01	<.01	<.01	<.01	0.00
Clute			93	46	0	0.01†	<.01	0.01†	<.01	0.00
			94	53	0	<.01	<.01	<.01	<.01	0.00
			95	62	1	0.02†	<.01	0.49	0.16†	0.07
Cameron	61	6	93	19	0	<.01	<.01	<.01	<.01	0.00
Brownsville			94	59	0	0.01†	<.01	0.01†	<.01	0.00
			95	57	0	0.01†	<.01	0.11†	0.01†	0.01
Dallas	113	70	93	49	0	0.01†	<.01	0.02†	<.01	0.00
Dallas			94	58	0	<.01	<.01	<.01	<.01	0.00
			95	57	0	<.01	<.01	<.01	<.01	0.00
Ector	135	3	93	52	0	0.01†	<.01	0.01†	<.01	0.00
Odessa			94	59	0	<.01	<.01	<.01	<.01	0.00
			95	59	0	<.01	<.01	<.01	<.01	0.00
Ellis	139	7	93	55	0	0.01†	<.01	0.01†	<.01	0.00
Midlothian			94	51	0	<.01	<.01	<.01	<.01	0.00
			95	58	0	0.01†	<.01	0.10†	<.01	0.01
El Paso	141	47	93	33	0	0.01†	<.01	0.08†	0.02†	0.01
El Paso			94	58	0	<.01	<.01	<.01	<.01	0.00
			95	55	0	<.01	<.01	<.01	<.01	0.00
Galveston	167	53	92	9	0	<.01	<.01	<.01	<.01	0.00
Texas City			93	51	0	0.01†	<.01	0.12†	0.01†	0.02
			94	51	0	<.01	<.01	<.01	<.01	0.00
			95	47	0	0.02†	<.01	0.22†	0.13†	0.04
Harris	201	24	95	7	0	0.02†	0.01†	0.04†	0.02†	0.01
Aldine										
Harris	201	26	92	7	0	<.01	<.01	<.01	<.01	0.00
Channelview			93	49	1	0.02†	<.01	0.61	0.09†	0.09
			94	59	0	<.01	<.01	<.01	<.01	0.00
			95	55	0	0.02†	<.01	0.25†	0.14†	0.04
Harris	201	64	93	43	0	0.01†	<.01	0.01†	<.01	0.00
Houston, Allendale			94	54	0	<.01	<.01	<.01	<.01	0.00
			95	53	0	0.02†	<.01	0.23†	0.12†	0.04
Harris	201	803	92	1	0	<.01	<.01	<.01	<.01	0.00
Houston, Haden			93	56	0	0.01†	<.01	0.01†	0.01†	0.00
			94	58	0	<.01	<.01	<.01	<.01	0.00
			95	57	2	0.04†	<.01	0.97	0.47	0.14
Harris	201	1035	92	8	1	0.40†	<.01	3.15	<.01	1.11
Houston, Clinton			93	50	0	0.01†	<.01	0.01†	<.01	0.00
			94	58	0	<.01	<.01	<.01	<.01	0.00
			95	60	1	0.02†	<.01	0.52	0.04†	0.07

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Vinyl Chloride Data Summary (continued)

1992 - 1995

MDL = 0.45

24-Hour ESL = 20.00

Annual ESL = 5.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Jefferson Beaumont	245 9	92	7	0	<.01	<.01	<.01	<.01	0.00
		93	56	0	0.01†	<.01	0.02†	0.01†	0.00
		94	59	0	<.01	<.01	<.01	<.01	0.00
		95	61	0	0.01†	<.01	0.12†	0.06†	0.02
Jefferson Port Arthur	245 11	92	7	0	<.01	<.01	<.01	<.01	0.00
		93	60	0	0.01†	<.01	0.01†	<.01	0.00
		94	57	0	<.01	<.01	<.01	<.01	0.00
		95	58	0	0.01†	<.01	0.26†	0.03†	0.03
Jefferson Groves	245 14	93	18	0	0.01†	<.01	0.01†	<.01	0.00
		94	58	0	<.01	<.01	<.01	<.01	0.00
		95	53	0	0.01†	<.01	0.30†	0.04†	0.04
Jefferson Port Neches	245 17	94	23	0	<.01	<.01	<.01	<.01	0.00
Nueces Corpus Christi	355 20	93	55	0	0.01†	<.01	0.03†	0.01†	0.00
		94	52	0	<.01	<.01	<.01	<.01	0.00
		95	53	0	0.01†	<.01	0.01†	0.01†	0.00
Orange West Orange	361 1001	94	27	0	<.01	<.01	<.01	<.01	0.00
		95	21	0	<.01	<.01	<.01	<.01	0.00
Smith Winona	423 5	94	32	0	<.01	<.01	<.01	<.01	0.00
		95	18	0	0.01†	<.01	0.04†	<.01	0.01
Tarrant Grapevine	439 3002	94	15	0	<.01	<.01	<.01	<.01	0.00
		95	13	0	<.01	<.01	<.01	<.01	0.00
Tarrant Irving, DFW Airport	439 3004	94	9	0	<.01	<.01	<.01	<.01	0.00
		95	6	0	<.01	<.01	<.01	<.01	0.00
Travis Austin	453 17	94	21	0	<.01	<.01	<.01	<.01	0.00

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

o-Xylene Data Summary

1992 - 1995

MDL = 1.02

24-Hour ESL = 400.00

Annual ESL = 100.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	2	0.50†	0.40†	1.29	1.10	0.32
San Antonio			95	4	0	0.22†	0.25†	0.30†	0.26†	0.10
Brazoria	39	1003	92	7	0	0.27†	0.27†	0.59†	0.49†	0.21
Clute			93	46	2	0.33†	0.25†	1.89	1.75	0.37
			94	53	1	0.16†	0.14†	1.05	0.40†	0.15
			95	62	1	0.12†	0.09†	1.16	0.33†	0.16
Cameron	61	6	93	19	2	0.43†	0.34†	1.22	1.06	0.29
Brownsville			94	59	2	0.28†	0.19†	1.12	1.02	0.24
			95	57	2	0.31†	0.15†	5.29	1.30	0.71
Dallas	113	70	93	49	0	0.25†	0.21†	0.95†	0.79†	0.18
Dallas			94	58	0	0.25†	0.22†	0.73†	0.62†	0.16
			95	57	0	0.14†	0.11†	0.67†	0.53†	0.13
Ector	135	3	93	52	2	0.30†	0.22†	2.73	1.17	0.41
Odessa			94	59	0	0.17†	0.14†	0.71†	0.63†	0.16
			95	59	0	0.11†	0.07†	0.78†	0.64†	0.15
Ellis	139	7	93	55	2	0.19†	0.10†	1.80	1.30	0.29
Midlothian			94	51	0	0.10†	0.08†	0.57†	0.45†	0.10
			95	58	0	0.06†	0.04†	0.73†	0.30†	0.11
El Paso	141	47	93	33	6	0.78†	0.78†	1.53	1.51	0.33
El Paso			94	58	10	0.61†	0.44†	2.45	1.69	0.48
			95	55	3	0.45†	0.40†	1.89	1.40	0.34
Galveston	167	53	92	9	5	0.91†	1.06	1.45	1.40	0.52
Texas City			93	51	2	0.33†	0.29†	1.15	1.07	0.28
			94	51	2	0.40†	0.29†	3.48	1.37	0.51
			95	47	0	0.21†	0.17†	0.82†	0.54†	0.17
Harris	201	24	95	7	0	0.09†	0.08†	0.18†	0.17†	0.06
Aldine										
Harris	201	26	92	7	2	0.65†	0.61†	1.58	1.17	0.56
Channelview			93	49	4	0.42†	0.32†	1.56	1.20	0.33
			94	59	3	0.33†	0.25†	1.60	1.08	0.29
			95	55	2	0.23†	0.16†	1.30	1.02	0.24
Harris	201	64	93	43	8	0.98†	0.54†	8.43	5.74	1.49
Houston, Allendale			94	54	6	0.51†	0.40†	1.95	1.95	0.44
			95	53	3	0.53†	0.29†	8.75	3.28	1.25
Harris	201	803	92	1	0	0.25†		0.25†		
Houston, Haden			93	56	9	0.63†	0.45†	2.37	2.23	0.60
			94	58	8	0.59†	0.58†	1.73	1.53	0.42
			95	57	7	0.44†	0.28†	2.22	1.63	0.48
Harris	201	1035	92	8	4	1.09	0.92†	2.32	2.20	0.88
Houston, Clinton			93	50	11	0.82†	0.65†	4.48	2.70	0.75
			94	58	6	0.58†	0.50†	1.69	1.35	0.34
			95	60	4	0.47†	0.40†	1.63	1.54	0.35

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

o-Xylene Data Summary (continued)

1992 - 1995

MDL = 1.02

24-Hour ESL = 400.00

Annual ESL = 100.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Jefferson Beaumont	245 9	92	7	0	0.24†	0.22†	0.59†	0.32†	0.19
		93	56	1	0.32†	0.26†	2.73	0.75†	0.36
		94	59	0	0.20†	0.20†	0.62†	0.60†	0.14
		95	61	0	0.22†	0.21†	0.84†	0.63†	0.19
Jefferson Port Arthur	245 11	92	7	0	0.31†	0.22†	0.96†	0.25†	0.29
		93	60	1	0.26†	0.20†	1.12	0.75†	0.19
		94	57	0	0.21†	0.17†	0.91†	0.50†	0.14
		95	58	1	0.22†	0.11†	4.85	0.69†	0.63
Jefferson Groves	245 14	93	18	3	0.63†	0.45†	2.42	1.39	0.59
		94	58	5	0.44†	0.32†	3.51	1.08	0.50
		95	53	0	0.22†	0.19†	0.74†	0.59†	0.17
Jefferson Port Neches	245 17	94	23	18	1.60	1.71	4.38	2.98	1.10
Nueces Corpus Christi	355 20	93	55	7	0.56†	0.48†	3.46	1.84	0.54
		94	52	2	0.35†	0.30†	2.19	1.03	0.32
		95	53	2	0.29†	0.20†	3.14	1.21	0.45
Orange West Orange	361 1001	94	27	0	0.29†	0.24†	0.72†	0.65†	0.17
		95	21	3	0.50†	0.32†	1.83	1.58	0.48
Smith Winona	423 5	94	32	3	0.53†	0.28†	2.51	2.43	0.60
		95	18	1	0.18†	0.05†	1.09	0.77†	0.31
Tarrant Grapevine	439 3002	94	15	0	0.31†	0.25†	0.74†	0.70†	0.19
		95	13	0	0.06†	0.04†	0.22†	0.14†	0.06
Tarrant Irving, DFW Airport	439 3004	94	9	3	0.84†	0.49†	2.62	1.88	0.86
		95	6	0	0.06†	0.05†	0.08†	0.06†	0.01
Travis Austin	453 17	94	21	0	0.34†	0.34†	0.70†	0.67†	0.17

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

m-Xylene and p-Xylene Data Summary
1992 - 1995

MDL = 0.68

24-Hour ESL = 400.00

Annual ESL = 100.00

	County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Bexar	29	51	94	21	15	1.26	0.90	4.70	2.74	1.05
San Antonio			95	4	3	1.13	1.14	1.93	1.38	0.69
Brazoria	39	1003	93	8	1	0.46†	0.44†	0.89	0.64†	0.24
Clute			94	53	5	0.34†	0.28†	1.17	1.13	0.27
			95	62	3	0.24†	0.17†	1.54	0.89	0.25
Cameron	61	6	93	14	6	0.95	0.63†	2.91	2.18	0.74
Brownsville			94	59	18	0.64†	0.43†	2.60	2.51	0.60
			95	57	13	0.80	0.24†	16.77	4.37	2.28
Dallas	113	70	93	15	3	0.59†	0.48†	2.17	1.50	0.55
Dallas			94	58	19	0.64†	0.46†	2.50	2.21	0.59
			95	57	6	0.32†	0.21†	1.71	1.18	0.33
Ector	135	3	93	15	6	0.61†	0.43†	1.54	1.20	0.41
Odessa			94	59	15	0.54†	0.46†	1.84	1.53	0.38
			95	59	5	0.32†	0.22†	2.21	1.85	0.39
Ellis	139	7	93	15	1	0.23†	0.13†	0.87	0.63†	0.23
Midlothian			94	51	1	0.23†	0.16†	2.40	0.59†	0.34
			95	58	1	0.10†	0.06†	0.72	0.39†	0.12
El Paso	141	47	93	11	11	2.40	2.53	4.09	3.50	0.91
El Paso			94	58	42	1.99	1.27	10.47	6.85	1.90
			95	55	34	1.03	0.89	3.87	3.76	0.81
Galveston	167	53	93	14	3	0.51†	0.24†	1.96	1.63	0.60
Texas City			94	51	23	0.97	0.56†	4.84	4.40	1.04
			95	47	10	0.42†	0.28†	2.32	1.52	0.45
Harris	201	24	95	7	0	0.29†	0.33†	0.48†	0.47†	0.17
Aldine										
Harris	201	26	93	8	2	0.76	0.57†	2.16	1.10	0.62
Channelview			94	59	32	0.96	0.70	3.58	3.44	0.83
			95	55	16	0.54†	0.38†	3.37	2.14	0.59
Harris	201	64	93	15	13	1.26	1.19	2.54	2.03	0.58
Houston, Allendale			94	54	37	1.27	0.99	5.46	4.51	1.13
			95	53	24	0.69	0.53†	2.56	2.42	0.60
Harris	201	803	93	15	13	2.22	1.32	9.77	4.24	2.40
Houston, Haden			94	58	46	1.95	1.60	5.65	5.62	1.36
			95	57	38	1.42	0.88	8.65	6.62	1.67
Harris	201	1035	93	13	12	1.36	1.52	2.54	1.98	0.63
Houston, Clinton			94	58	46	1.58	1.32	6.25	4.34	1.20
			95	60	45	1.06	0.88	4.05	2.64	0.74
Jefferson	245	9	93	13	3	0.56†	0.51†	1.34	0.76	0.28
Beaumont			94	59	23	0.67†	0.54†	2.44	2.21	0.48
			95	61	25	0.65†	0.61†	2.23	1.55	0.41
Jefferson	245	11	93	15	3	0.46†	0.36†	1.32	0.91	0.32
Port Arthur			94	57	10	0.54†	0.45†	4.27	1.69	0.59
			95	58	4	0.39†	0.23†	7.11	0.91	0.92
Jefferson	245	14	93	15	9	1.20	0.86	3.96	2.03	0.95
Groves			94	58	36	1.22	0.91	12.46	3.80	1.72
			95	53	17	0.54†	0.47†	1.83	1.33	0.40
Jefferson	245	17	94	23	20	6.35	6.00	14.76	14.66	4.06

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

m-Xylene and p-Xylene Data Summary (continued)
1992 - 1995

MDL = 0.68

24-Hour ESL = 400.00

Annual ESL = 100.00

County	Site	Year	Number Valid Samples	Number Valid Samples ≥ MDL	Annual Mean	Median	24-Hour High	24-Hour Second High	Standard Deviation
Nueces Corpus Christi	355	20	93	15	7	0.67†	2.76	2.30	0.79
		94	52	27	0.84	0.71	4.27	2.24	0.70
		95	53	13	0.53†	0.44†	2.21	1.68	0.44
Orange West Orange	361	1001	94	27	11	0.67†	1.61	1.49	0.40
		95	21	9	0.79	0.52†	2.39	2.04	0.67
Smith Winona	423	5	94	32	18	1.20	0.74	4.09	3.44
		95	18	3	0.37†	0.09†	2.70	1.48	0.72
Tarrant Grapevine	439	3002	94	15	5	0.83	0.57†	2.28	1.95
		95	13	1	0.17†	0.10†	0.78	0.34†	0.20
Tarrant Irving, DFW Airport	439	3004	94	9	4	2.11	0.64†	7.15	5.39
		95	6	0	0.13†	0.12†	0.21†	0.18†	0.05
Travis Austin	453	17	94	21	11	0.77	0.68	1.88	1.78
									0.49

Source: TNRCC air toxics database

0.01 ppbv is the reporting limit

* = Mean is greater than the annual ESL

** = Greater than the 24-hour ESL

† = Less than the yearly method detection limit (MDL)

Values in parts per billion by volume (ppbv)

ESL = Effects Screening Levels

Table 1. TNRCC Community Air Toxics Monitoring Network Sites

County	Name	Location	AIRS No.	Start
Bexar	San Antonio	254 Seale Rd.	029 0051	07/13/94
Brazoria	Clute	426 Commerce Ave.	039 1003	11/20/92
Cameron	Brownsville	344 Porter Dr.	061 0006	09/04/93
Dallas	Dallas	1601 Chalk Hill Rd.	113 0070	02/24/93
Ector	Odessa	Barrett Ave. and Monahans St.	135 0003	02/12/93
Ellis	Midlothian	440 Tayman Dr.	139 0007	01/25/93
El Paso	El Paso	Clark Dr. and Cleveland Ave.	141 0047	05/13/93
Galveston	Texas City	17th St. and 5th Ave.	167 0053	10/27/92
Harris	Aldine	4510 Aldine Mail Rt.	201 0024	11/12/95
Harris	Channelview	1401 Sheldon Rd.	201 0026	11/20/92
Harris	Houston (Old Galveston Rd.)	3100 Old Galveston Rd.	201 0064	01/25/93
Harris	Houston (Haden Rd.)	1504 Haden Rd.	201 0803	12/26/92
Harris	Houston (Clinton Dr.)	9525 Clinton Dr.	201 1035	11/19/92
Jefferson	Beaumont	Georgia Ave. and Cunningham St.	245 0009	11/19/92
Jefferson	Port Arthur	800 El Vista	245 0011	11/19/92
Jefferson	Groves	3355 Grandview Ave.	245 0014	09/04/93
Jefferson	Port Neches	1225 Merriman St.	245 0017	07/25/94
Nueces	Corpus Christi	1111 Navigation Blvd.	355 0020	01/01/93
Orange	West Orange	2700 Austin Ave.	361 1001	07/25/94
Smith	Winona	605 Wildcat Dr.	423 0005	06/25/94
Tarrant	Grapevine	601 Boyd Dr.	439 3002	07/01/94
Tarrant	DFW Airport	North Airfield Dr.	439 3004	08/12/94
Travis	Austin	West Cesar Chavez and Colorado St.	453 0017	07/31/94

AIRS = Aerometric Information Retrieval System

Source: TNRCC air toxics database